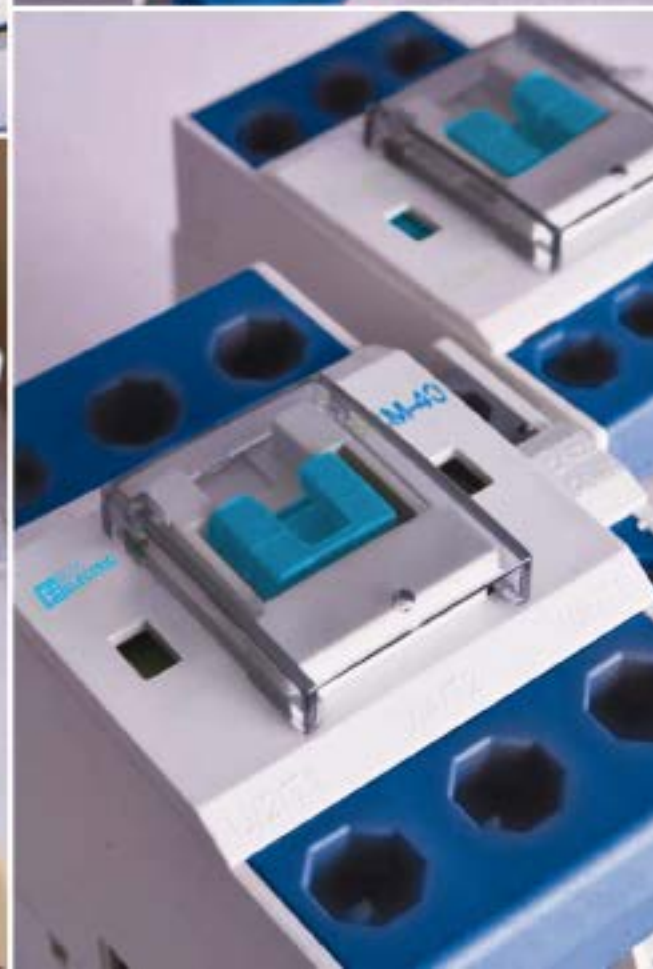




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LOW VOLTAGE PRODUCTS
ORDER CATALOGUE



Company Profile

The portfolio of Beta Electric meets a wide variety of fundamental & world requirement in terms of full range of products and solutions in the low voltage, automation for industry, buildings and residential areas, Beta started its business with switchgear panels in its own factory established in 2010.

The full range of products and solutions that Beta offers are manufactured considering nothing but the Best Value Products which led to earn customer's trust and satisfaction over the past period.

To maintain this market growth Beta was forced to implement a variety of measures to interact with both internal and external changes in the operating environment. In addition to building a strong foundation for further growth, considering qualitative and quantitative production control.

In Beta Electric all the working process from planning to the marketing are carried out under the guarantee of ISO 9001 Quality Management System. Each product is produced properly according to the IEC, EN and International Standards and After making quality controls, the products are dispatched to the customers.

Today Beta Electric produces Panels, Molded Case Circuit Breakers, Miniature Circuit Breakers, L/V Contactors, LV Current Transformers and all low voltage switchgear components. Beta which focuses on total quality management concept, aims to be one of the leading Brands in the Middle East & Africa in accordance with short medium and long terms in 5 years.





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Technical Specifications for Adjustable Type MCCBs

Type				BEI160 (C-Series)	BEI160 (K-Series)		BEI160 (M-Series)	BEI250 (K-Series)		BEI250 (M-Series)	BEI250 (S-Series)		BEI250 (U-Series)	BEI400 (K-Series)	BEI400 (M-Series)	BEI400 (S-Series)		BEI630 (K-Series)	BEI630 (M-Series)	BEI630 (S-Series)		BEI800 (M-Series)	BEI1600 (U-Series)	
Standard				TS EN 60947-2	TS EN 60947-2		TS EN 60947-2	TS EN 60947-2		TS EN 60947-2	TS EN 60947-2		TS EN 60947-2	TS EN 60947-2	TS EN 60947-2	TS EN 60947-2		TS EN 60947-2	TS EN 60947-2	TS EN 60947-2		TS EN 60947-2	TS EN 60947-2	
Rated Current (at 50° C)	A			16,20,25,32,40,50, 63,80,100,125,160	16,20,25,32,40,50, 63,80,100,125,160		40,50,63,80, 100,125,160	200,250		100,125,160, 200,250	100,125,160, 200,250		100,160,200, 250	320,400	320,400	320,400		500,630	500,630	500,630		800	1000,1250,1600	
No Of Poles				3	3	4	3	3	4	3	3	4	3	3	3	3	4	3	3	3	4	3	3	
Rated Voltage	Ue	V	AC	400	400		400	400		400	400		400	400	400	400		400	400	400		400	400	
Rated Insulation Voltage	Ui	V	AC	690	750		750	750		750	750		750	750	750	690		750	750	750		750	750	
Power Frequency Withstand Test At 1 Min.		V	AC	3000	3000		3000	3000		3000	3000		3000	3000	3000	3000		3000	3000	3000		3000	3000	
Rated Impulse Withstand Voltage	Uimp	kV	AC	8	8		8	8		8	8		8	8	8	8		8	8	8		8	8	
Rated Ultimate Short Circuit Breaking Capacity	Icu	kA	690 V AC	5	8		10	8		10	16		8	12	17	16		12	17	16		22	25	
			500 V AC	7	9		18	9		18	42		9	20	25	42		20	25	42		35	35	
			440 V AC	15	22		42	22		42	50		22	25	35	50		25	35	50		42	50	
			415 V AC	25	36		50	36		50	70		36	36	50	70		36	50	70		50	70	
			240 V AC	35	50		65	50		65	100		50	65	50	100		65	80	100		100	85	
			250 V DC (3 kutup seri)	10	15		25	15		25	30		15	25	30	30		25	30	30		30	—	
Rated Ultimate Short Circuit Breaking Capacity	Ics	kA	690 V AC	5	8		8	8		10	8		8	12	17	8		12	17	8		22	25	
			500 V AC	7	9		14	9		18	21		9	20	25	21		20	25	21		35	35	
			440 V AC	10	22		32	22		42	25		22	25	35	25		25	35	25		42	50	
			415 V AC	18	36		38	36		50	52		36	25	36	52		25	36	52		36	52	
			240 V AC	25	50		50	50		65	50		50	36	80	50		36	50	50		50	65	
			250 V DC (3 kutup seri)	5	10		19	10		25	23		10	20	23	23		23	23	23		23	—	
Utilisation Catagory				A	A		A	A		A	A		A	A	A	A		A	A	A		A	B	
Pollution Degree				3	3		3	3		3	3		3	3	3	3		3	3	3		3	3	
Electrical Life	ON - OFF		415 V	5000	8000		8000	8000		8000	8000		8000	6000	6000	6000		5000	5000	5000		5000	4000	
Mechanical Life	ON - OFF			15000	20000		20000	20000		20000	20000		20000	15000	15000	15000		15000	15000	15000		10000	8000	
Protection Unit				Ther: adj. Mag: Fixed	Ther: adj. Mag: Fixed		Ther: adj. Mag: Fixed	Ther: adj. Mag: adj.		Ther: adj. Mag: adj.	Ther: adj. Mag: adj.		Electronic	Ther: adj. Mag: adj.	Ther: adj. Mag: adj.	Ther: adj. Mag: adj.		Ther: adj. Mag: adj.	Ther: adj. Mag: adj.	Ther: adj. Mag: adj.		Ther: adj. Mag: adj.	Electronic	
Protection Unit (Protection For Cable&Power Distribution Circuit)				I _r :(0,8-1)xI _n ; I _m :10xI _n	I _r :(0,7-1)xI _n ; I _m :10xI _n		I _r :(0,8-1)xI _n ; I _m :10xI _n	I _r :(0,7-1)xI _n ; I _m :(5-10)xI _n		I _r :(0,7-1)xI _n ; I _m :(5-10)xI _n	I _r :(0,8-1)xI _n ; I _m :(5-10)xI _n		I _r :(0,4-1)xI _n ; I _m :(2-10)xI _n	I _r :(0,8-1)xI _n ; I _m :(5-10)xI _n	I _r :(0,8-1)xI _n ; I _m :(5-10)xI _n	I _r :(0,8-1)xI _n ; I _m :(5-10)xI _n		I _r :(0,8-1)xI _n ; I _m :(5-10)xI _n	I _r :(0,8-1)xI _n ; I _m :(5-10)xI _n	I _r :(0,8-1)xI _n ; I _m :(5-10)xI _n		I _r :(0,4-1)xI _n ; I _m :(2-10)xI _n		
Protection Unit (Protection for AC Motors)				I _r :(0,8-1)xI _n ; I _m :15xI _n	I _r :(0,7-1)xI _n ; I _m :15xI _n		I _r :(0,8-1)xI _n ; I _m :15xI _n	I _r :(0,7-1)xI _n ; I _m :(10-15)xI _n		I _r :(0,7-1)xI _n ; I _m :(10-15)xI _n	I _r :(0,8-1)xI _n ; I _m :(10-15)xI _n		I _r :(0,4-1)xI _n ; I _m :(2-10)xI _n	I _r :(0,8-1)xI _n ; I _m :(8-12)xI _n	I _r :(0,8-1)xI _n ; I _m :(8-12)xI _n	I _r :(0,8-1)xI _n ; I _m :(10-15)xI _n		I _r :(0,8-1)xI _n ; I _m :(8-12)xI _n	I _r :(0,8-1)xI _n ; I _m :(8-12)xI _n	I _r :(0,8-1)xI _n ; I _m :(10-15)xI _n		I _r :(0,4-1)xI _n ; I _m :(2-10)xI _n		
Max. Ambient Temperature	°C			Between -20 and +60	Between -20 and +60		Between -20 and +60	Between -20 and +60		Between -20 and +60	Between -20 and +60		Between -20 and +60	Between -20 and +60	Between -20 and +60	Between -20 and +60		Between -20 and +60	Between -20 and +60	Between -20 and +60		Between -20 and +60	Between -20 and +60	
Max. Storage Temperature	°C			Between -40 and +80	Between -40 and +80		Between -40 and +80	Between -40 and +80		Between -40 and +80	Between -40 and +80		Between -40 and +80	Between -40 and +80	Between -40 and +80	Between -40 and +80		Between -40 and +80	Between -40 and +80	Between -40 and +80		Between -40 and +80	Between -40 and +80	
Dimension	Width	mm	W	90	105	140	90	105	140	105	140	105	105	140	140	140	140	185	140	140	140	185	210	210
	Height	mm	H	120	161	161	140	161	161	161	161	160	161	161	160	160	260	260	260	260	260	260	275	460
	Depth	mm	D	70	86	86	86	86	86	86	86	86	86	86	107	107	110	110	107	107	210	210	103	138.5
Accessories																								
Shunt Trip				√	√		√	√		√	√		√	√	√	√		√	√	√		√	√	
Under Voltage				√	√		√	√		√	√		√	√	√	√		√	√	√		√	√	
Aux. Contact				√	√		√	√		√	√		√	√	√	√		√	√	√		√	√	
Alarm Contact				√	√		√	√		√	√		√	√	√	√		√	√	√		√	√	
Motor Operator				—	√		—	√		√	—		√	√	√	—		√	√	—		√	√	
Rotary Handle				—	√		√	√		√	√		√	√	√	√		√	√	√		√	√	
Connection Terminal				on	√		—	√		√	—		√	—	—	—		—	—	—		—	—	
Key Lock				√	√		—	√		√	—		√	√	√	—		√	√	—		—	—	
Extention Copper				—	√		√	√		√	√		√	√	√	√		on	on	on		on	on	

Technical Specifications for Fixed Type MCCBs

Type				BEI160 (KM-Series)	BEI160 (A-Series)	BEI250 (A-Series)	BEI400 (A-Series)	BEI160 (AN-Series)	BEI250 (AN-Series)	BEI400 (AN-Series)	BEI630 (AN-Series)	BEI800 (AN-Series)
Standard				TS EN 60947-2	TS EN 60947-2	TS EN 60947-2	TS EN 60947-2	TS EN 60947-2	TS EN 60947-2	TS EN 60947-2	TS EN 60947-2	TS EN 60947-2
Rated Current (at 50° C)		A		16,20,25,32,40, 50,63,80,100, 125,160,200	20,25,32,40, 50,63,80,100, 125,160	200, 250	320, 400	20, 25, 32, 40, 50, 63, 80, 100, 125, 160	200,250	320,400	500,630	800
No Of Poles				1	3	3	3	4	4	4	4	4
Rated Voltage	Ue	V	AC	400	400	400	400	400	400	400	400	400
Rated Insulation Voltage	Ui	V	AC	750	750	750	750	750	750	750	750	750
Power Frequency Withstand Test At 1 Minute		V	AC	3000	3000	3000	3000	3000	3000	3000	3000	3000
Rated Impulse Withstand Voltage	Uimp	kV		8	8	8	8	8	8	8	8	8
Rated Ultimate Short-Circuit Breaking Capacity	Icu	kA	400/415 V AC	36	25	25	36	25	36	36	36	36
Rated Service Short- Circuit Breaking Capacity	Ics	kA	400/415 V AC	18	18	18	18	12,5	18	18	18	18
Pollution Degree				3	3	3	3	3	3	3	3	3
Electrical Life	ON - OFF		400/415 V AC	4000	5000	4000	3000	5000	4000	3000	2000	1500
Mechanical Life	ON - OFF			10000	12000	10000	7000	12000	10000	7000	6000	5000
Thermal Setting				fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Magnetic Setting				fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed
Max.Operational Temperature		°C		-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60
Max. Storage Temperature		°C		-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80
Dimensions	Width	mm	W	40	90	105	140	120	140	185	280	280
	Height	mm	H	160	155	165	257	155	165	257	275	275
	Depth	mm	D	86	68	68	103	68	68	103	103	103
Accessories												
Shunt Trip				–	√	√	√	√	√	√	√	√
Undervoltage				–	√	√	√	√	√	√	√	√
Aux. Contact				–	√	√	√	√	√	√	√	√
Alarm Contact				–	√	√	√	√	√	√	√	√
Motor Operator				-	-	-	-	-	-	-	-	-
Rotary Handle				–	√	√	√	√	√	√	√	√
Extention Copper				–	√	√	√	√	√	√	√	√

Technical Specifications for Earth Leakage Circuit Breakers

Type				BEF250	BED100	BED225	BED400	BED630
No Of Poles				3	4	4	4	4
Rated Current (at 50° C)	A			40, 50, 63, 80, 100,125,160,200,250	40, 50, 63, 80, 100	125, 160,200	250,320,400	630
Rated Residual Current	mA			30-300-500-1000- 3000	30-100-300-500	30-100-300-500	100-200-300-500	100-200-300-500
Adjustable Tripping Delaying Time	millisecond			100-500-1000	100-300-500-1000	100-300-500-1000	100-300-500-1000	100-300-500-1000
Tripping Time Without Delay (Adjustable)	millisecond			<200	<200	<200	<200	<200
Rated Operational Voltage	Ue	V	AC	400	400	400	400	400
Rated Insulation Voltage	Ui	V	AC	750	750	750	750	750
Rated Impulse With- stand Voltage	Uimp	kV	AC	8	8	8	8	8
Rated Ultimate Short- Circuit Breaking Cap.	Icu	kA	400 V AC	36	36	36	50	50
Rated Service Short- Circuit Breaking cap.	Ics	kA	400 V AC	18	18	18	25	25
Pollution Degree				3	3	3	3	3
Electrical Life	ON - OFF		400 V	5000	5000	5000	5000	4000
Mechanical Life	ON - OFF			15000	15000	15000	15000	10000
Overload Protection				>1.3xIn	>1.3xIn	>1.3xIn	>1.3xIn	>1.3xIn
Instantaneous Protec- tion				8xIn	8xIn	8xIn	8xIn	8xIn
Residual Current Protection				(30-3000 mA)	(30-500 mA)	(30-500 mA)	(100-500 mA)	(100-500 mA)
Max. Operational Temperature	°C			-20 to +60	-20 to +60	-20 to +60	-20 to +60	-20 to +60
Max. Storage Tem- perature	°C			-40 to +80	-40 to +80	-40 to +80	-40 to +80	-40 to +80
Dimensions	Width	mm	W	90	120	140	196	280
	Height	mm	H	253	195	213	302	342
	Depth	mm	D	86	68	103	103	103



3 Poles Adj. Type MCCB

FOR PROTECTION OF POWER DISTRIBUTION AND CABLES



Type Code	Rated Current In (A)	Ther. Adj. Current Ir (A)	Breaking Cap. Icu (kA)	Minimum order	Pack Qty	Order Code
BEI160 (C-Series)	16	10-16	25	1	8	BE.3C160016
	20	16-20	25	1	8	BE.3C160020
	25	20-25	25	1	8	BE.3C160025
	32	25-32	25	1	8	BE.3C160032
	40	32-40	25	1	8	BE.3C160040
	50	40-50	25	1	8	BE.3C160050
	63	50-63	25	1	8	BE.3C160063
	80	63-80	25	1	8	BE.3C160080
	100	80-100	25	1	8	BE.3C160100
	125	100-125	25	1	8	BE.3C160125
	160	125-160	25	1	8	BE.3C160160
BEI160 (K-Series)	16	11-16	36	1	8	BE.3K160016
	20	14-20	36	1	8	BE.3K160020
	25	18-25	36	1	8	BE.3K160025
	32	23-32	36	1	8	BE.3K160032
	40	28-40	36	1	8	BE.3K160040
	50	35-50	36	1	8	BE.3K160050
	63	44-63	36	1	8	BE.3K160063
	80	56-80	36	1	8	BE.3K160080
	100	70-100	36	1	8	BE.3K160100
	125	88-125	36	1	8	BE.3K160125
	160	112-160	36	1	8	BE.3K160160
BEI250 (K-Series)	200	140-200	36	1	6	BE.3K250200
	250	175-250	36	1	6	BE.3K250250
BEI400 (K-Series)	320	256-320	36	1	2	BE.3K400320
	400	315-400	36	1	2	BE.3K400400
BEI630 (K-Series)	500	400-500	36	1	2	BE.3K630500
	630	500-630	36	1	2	BE.3K630630
BEI160 (M-Series)	40	28-40	50	1	6	BE.3M250040
	50	35-50	50	1	6	BE.3M250050
	63	44-63	50	1	6	BE.3M250063
	80	56-80	50	1	6	BE.3M250080
	100	70-100	50	1	6	BE.3M250100
	125	88-125	50	1	6	BE.3M250125
BEI250 (M-Series)	160	112-160	50	1	6	BE.3M250160
	200	140-200	50	1	6	BE.3M250200
	250	175-250	50	1	6	BE.3M250250
BEI400 (M-Series)	320	250-320	50	1	2	BE.3M400320
	400	315-400	50	1	2	BE.3M400400
BEI630 (M-Series)	500	400-500	50	1	2	BE.3M630500
	630	500-630	50	1	2	BE.3M630630
BEI800 (M-Series)	800	630-800	50	1	2	BE.3M800800
BEI250 (S-Series)	100	80-100	70	1	6	BE.3S250100
	125	100-125	70	1	6	BE.3S250125
	160	125-160	70	1	6	BE.3S250160
	200	160-200	70	1	6	BE.3S250200
	250	200-250	70	1	6	BE.3S250250
	320	250-320	70	1	2	BE.3S400320
BEI400 (S-Series)	400	315-400	70	1	2	BE.3S400400
	500	400-500	70	1	2	BE.3S630500
BEI630 (S-Series)	630	500-630	70	1	2	BE.3S630630
	800	630-800	70	1	2	BE.3S800800

Electronic Trip Unit

Type Code	Rated Current In (A)	Ther. Adj. Current Ir (A)	Breaking Cap. Icu (kA)	Minimum Order	Pack Qty	Order Code
BEI250 (U-Series)	100	40-100	50	1	6	BE.3U250100
	160	64-160	50	1	6	BE.3U250160
	250	100-250	50	1	6	BE.3U250250
BEI1600 (U-Series)	1000	400-1000	70	1	1	BE.3U160010
	1250	500-1250	70	1	1	BE.3U160012
	1600	640-1600	70	1	1	BE.3U160016

MOTOR PROTECTION

Type Code	Rated Current In (A)	Ther. Adj. Current Ir (A)	Breaking Cap. Icu (kA)	Minimum Order	Pack Qty	Order Code
BEI160 (K-Series)	25	18-25	36	1	8	BE.MK160025
	32	23-32	36	1	8	BE.MK160032
	40	28-40	36	1	8	BE.MK160040
	50	35-50	36	1	8	BE.MK160050
	63	44-63	36	1	8	BE.MK160063
	80	56-80	36	1	8	BE.MK160080
	100	70-100	36	1	8	BE.MK160100
	125	88-125	36	1	8	BE.MK160125
	160	112-160	36	1	8	BE.MK160160
	200	140-200	36	1	6	BE.MK250200
BEI250 (K-Series)	250	175-250	36	1	6	BE.MK250250
	320	250-320	36	1	4	BE.MK400320
BEI400 (K-Series)	400	315-400	36	1	4	BE.MK400400
	500	400-500	36	1	2	BE.MK630500
BEI630 (K-Series)	630	500-630	36	1	2	BE.MK630630

Type Code	Rated Current In (A)	Breaking Cap. Icu (kA)	Minimum Order	Pack Qty	Order Code
BEI160 (KM-Series)	16	36	1	24	BE.1KM16016
	20	36	1	24	BE.1KM16020
	25	36	1	24	BE.1KM16025
	32	36	1	24	BE.1KM16032
	40	36	1	24	BE.1KM16040
	50	36	1	24	BE.1KM16050
	63	36	1	24	BE.1KM16063
	80	36	1	24	BE.1KM16080
	100	36	1	24	BE.1KM16100
	125	36	1	24	BE.1KM16125
	160	36	1	24	BE.1KM16160
	200	36	1	24	BE.1KM16200

3 Poles Adj. Type MCCB



3 Poles Adj. Type MCCB



1 Pole Fixed Type MCCB



3 Poles Fixed Type MCCB

FOR PROTECTION OF POWER DISTRIBUTION AND CABLES



Type Code	Rated Current In (A)	Breaking Cap. Icu (kA)	Minimum Order	Pack Qty	Order Code
BEI160 (A-Series)	20	25	1	8	BE.3A160020
	25	25	1	8	BE.3A160025
	32	25	1	8	BE.3A160032
	40	25	1	8	BE.3A160040
	50	25	1	8	BE.3A160050
	63	25	1	8	BE.3A160063
	80	25	1	8	BE.3A160080
	100	25	1	8	BE.3A160100
	125	25	1	8	BE.3A160125
	160	25	1	6	BE.3A160160
BEI250 (A-Series)	200	36	1	6	BE.3A250200
	250	36	1	6	BE.3A250250
BEI400 (A-Series)	320	36	1	2	BE.3A400320
	400	36	1	2	BE.3A400400

4 Poles Fixed Type MCCB

FOR PROTECTION OF POWER DISTRIBUTION AND CABLES



Type Code	Type Code	Breaking Cap. Icu (kA)	Minimum Order	Pack Qty	Order Code
BEI160 (AN-Series)	25	25	1	6	BE.4A160025
	32	25	1	6	BE.4A160032
	40	25	1	6	BE.4A160040
	50	25	1	6	BE.4A160050
	63	25	1	6	BE.4A160063
	80	25	1	6	BE.4A160080
	100	25	1	6	BE.4A160100
	125	25	1	6	BE.4A160125
BEI250 (AN-Series)	160	25	1	6	BE.4A160160
	200	36	1	6	BE.4A250200
BEI400 (AN-Series)	250	36	1	6	BE.4A250250
	320	36	1	2	BE.4A400320
BEI630 (AN-Series)	400	36	1	2	BE.4A400400
	500	36	1	2	BE.4A630500
BEI800 (AN-Series)	630	36	1	2	BE.4A630630
	800	36	1	1	BE.4A800800

4 Poles Adj.Type MCCB

FOR PROTECTION OF POWER DISTRIBUTION AND CABLES

Type Code	Rated Current In (A)	Ther. Adj. Current Ir (A)	Breaking Cap. Icu (kA)	Minimum order	Pack Qty	Order Code
BEI160 (K-Series)	16	11-16	36	1	8	BE.4K160016
	20	14-20	36	1	8	BE.4K160020
	25	18-25	36	1	8	BE.4K160025
	32	23-32	36	1	8	BE.4K160032
	40	28-40	36	1	8	BE.4K160040
	50	35-50	36	1	8	BE.4K160050
	63	44-63	36	1	8	BE.4K160063
	80	56-80	36	1	8	BE.4K160080
	100	70-100	36	1	8	BE.4K160100
	125	88-125	36	1	8	BE.4K160125
	160	112-160	36	1	8	BE.4K160160
BEI250 (K-Series)	200	140-200	36	1	6	BE.4K250200
	250	175-250	36	1	6	BE.4K250250
BEI400 (S-Series)	320	250-320	70	1	2	BE.4S400320
	400	315-400	70	1	2	BE.4S400400
BEI630 (S-Series)	500	400-500	70	1	2	BE.4S630500
	630	500-630	70	1	2	BE.4S630630

Automatic Transfer Switches

Type Code	Rated Current In (A)	Breaking Cap. Icu (kA)	Order Code
BEATS-100	100 A	36	BE.SATS100
BEATS-160	160 A	36	BE.SATS160
BEATS-250	250 A	65	BE.SATS250
BEATS-400	400 A	65	BE.SATS400
BEATS-630	630 A	65	BE.SATS630
BEATS-800	800 A	65	BE.SATS800

Note: Automatic Transfer Switches consist of 2 pcs 4 poles
Ther &Mag type MCCB,
1 pcs Automatic Transfer Unit and 1 pc Control Unit.



Shunt Trip Release



Type Of MCCB	Voltage Supply (V)	Order Code
BEI160 (C-Series)	220	BE.3C160AB
BEI160 (K-Series), BEI250 (K-Series), BEI250 (M-Series)	220	BE.3K160AB
BEI160 (M-Series), BEI250 (S-Series), BEI400 (S-Series)	220	BE.3M250AB
BEI400 (K-Series), BEI400 (M-Series), BEI400 (S-Series) BEI630 (K-Series), BEI630 (M-Series), BEI630 (S-Series)	220	BE.3K400AB
BEI800 (M-Series), BEI800 (S-Series), BEI800 (A-Series)	220	BE.3M800AB
BEI1600 (U-Series)	220	BE.3U160AB
BEI160 (A-Series), BEI160 (AN-Series)	220	BE.3A160AB
BEI250 (A-Series), BEI250 (AN-Series)	220	BE.3A250AB
BEI400 (A-Series), BEI400 (AN-Series)	220	BE.3A400AB
BEI630 (AN-Series)	220	BE.4A630AB
BEI800 (AN-Series)	220	BE.4A800AB

Under Voltage Release



Type Of MCCB	Voltage Supply (V)	Order Code
BEI160 (C-Series)	380	BE.3C160DG
BEI160 (K-Series), BEI250 (K-Series), BEI250 (M-Series)	380	BE.3K160DG
BEI160 (M-Series), BEI250 (S-Series), BEI400 (S-Series)	380	BE.3M250DG
BEI400 (K-Series), BEI400 (M-Series), BEI400 (S-Series) BEI630 (K-Series), BEI630 (M-Series), BEI630 (S-Series)	380	BE.3M400DG
BEI800 (M-Series), BEI800 (S-Series), BEI800 (A-Series)	380	BE.3M800DG
BEI1600 (U-Series)	380	BE.3U160DG
BEI160 (A-Series), BEI160 (AN-Series)	380	BE.3A160DG
BEI250 (A-Series), BEI250 (AN-Series)	380	BE.3A250DG
BEI400 (A-Series), BEI400 (AN-Series)	380	BE.3A400DG
BEI630 (AN-Series)	380	BE.4A630DG
BEI800 (AN-Series)	380	BE.4A800DG

Connection Terminal



Type Of MCCB	Qty	Order Code
BEI160 (KM-Series)	2	BE.3KM16BK
BEI160 (K-Series), BEI250 (K-Series), BEI250 (M-Series)	6	BE.3K160BK

Aux. Contact



Type Of MCCB	Aux. Contact	Order Code
BEI160 (C-Series)	1NO+1NC	BE.3C160YK
BEI160 (C-Series)	2NO+2NC	BE.3C160YL
BEI160 (K-Series), BEI250 (K-Series), BEI250 (M-Series)	1NO+1NC	BE.3K160YK
BEI160 (M-Series), BEI250 (S-Series), BEI400 (S-Series)	1NO+1NC	BE.3K250YK
BEI400 (K-Series), BEI400 (M-Series), BEI400 (S-Series) BEI630 (K-Series), BEI630 (M-Series), BEI630 (S-Series)	1NO+1NC	BE.3K400YK
BEI800 (M-Series), BEI800 (S-Series), BEI800 (A-Series)	1NO+1NC	BE.3M800YK
BEI1600 (U-Series)	1NO+1NC	BE.3U160YK
BEI160 (A-Series), BEI160 (AN-Series)	1NO+1NC	BE.3A160YK
BEI250 (A-Series), BEI250 (AN-Series)	1NO+1NC	BE.3A250YK
BEI400 (A-Series), BEI400 (AN-Series)	1NO+1NC	BE.3A400YK
BEI630 (AN-Series)	1NO+1NC	BE.4A630YK
BEI800 (AN-Series)	1NO+1NC	BE.4A800YK

Alarm Contact



Type Of MCCB	Aux. Contact	Order Code
BEI160 (C-Series)	1NO+1NC	BE.3C160AK
BEI160 (K-Series), BEI250 (K-Series), BEI250 (M-Series)	1NO+1NC	BE.3K160AK
BEI160 (M-Series), BEI250 (S-Series), BEI400 (S-Series)	1NO+1NC	BE.3K250AK
BEI400 (K-Series), BEI400 (M-Series), BEI400 (S-Series)	1NO+1NC	BE.3K400AK
BEI800 (M-Series), BEI800 (S-Series), BEI800 (A-Series)	1NO+1NC	BE.3M800AK
BEI1600 (U-Series)	1NO+1NC	BE.3U160AK
BEI160 (A-Series), BEI160 (AN-Series)	1NO+1NC	BE.3A160AK
BEI250 (A-Series), BEI250 (AN-Series)	1NO+1NC	BE.3A250AK
BEI400 (A-Series), BEI400 (AN-Series)	1NO+1NC	BE.3A400AK
BEI630 (AN-Series)	1NO+1NC	BE.4A630AK
BEI800 (AN-Series)	1NO+1NC	BE.4A800AK

Extention Busbar



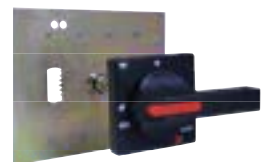
Type Of MCCB	Qty	Order Code
BEI160 (K-Series)	6	BE.3K160BU
BEI250 (K-Series)	6	BE.3K250BU

Motor Operator



Type Of MCCB	Voltage Supply (V)	Order Code
BEI160 (K-Series), BEI250 (K-Series), BEI250 (M-Series)	220	BE.3K160MK
BEI400 (K-Series), BEI400 (M-Series),BEI400 (S-Series) BEI630 (K-Series), BEI630 (M-Series) BEI630 (S-Series)	220	BE.3K400MK
BEI800 (M-Series), BEI800 (S-Series)	220	BE.3M800MK
BEI1600 (U-Series)	220	BE.3U160MK

Rotary Handle



Type Of MCCB	Order Code
BEI160 (K-Series), BEI250 (K-Series), BEI250 (M-Series)	BE.3K160DK
BEI160 (M-Series)-BEI250 (M-Series)-BEI400 (S-Series)	BE.3M250DK
BEI400 (K-Series), BEI400 (M-Series),BEI400 (S-Series) BEI630 (K-Series), BEI630 (M-Series) BEI630 (S-Series)	BE.3K400DK
BEI800 (M-Series), BEI800 (S-Series)	BE.3H800DK
BEI1600 (U-Series)	BE.3U160DK

Mechanical Lock



Type Of MCCB	Order Code
BEI160 (KM-Series), BEI160 (C-Series), BEI160 (K-Series), BEI250 (K-Series), BEI250 (M-Series)-BEI400 (K-Series), BEI400 (M-Series)-BEI630 (K-Series), BEI630 (M-Series)	BE.SEMK101

Note: The padlock is not included in the price

Earth leakage Module



Type Of MCCB	Threshold Current(A)	Threshold Time (s)	Order Code
BEI160 (K-Series), BEI250 (K-Series), BEI250 (M-Series)	0,03-0,3-0,5-1-3	0-0,1-0,5-1	BE.3F250

Earth Leakage Relay



Rated Residual Current (A)	Tripping Time(s)	Order Code
0,03 - 30	0,03-3	BE.SAR103LE

Toroidal Transformer



Type	Din (mm)	Order Code
BET-55	55	BE.ST055
BET-80	80	BE.ST080
BET-110	110	BE.ST110
BET-160	160	BE.ST160
BET-210	210	BE.ST210

4 Poles Earth Leakage Circuit Breakers (ELCB)

Type Code	Rated Current In (A)	Breaking Cap. Icu (kA)	Threshold Current(A)	Threshold Time (s)	Minimum Order	Pack Qty	Order Code
BED100	40	36	0,03-0,1-0,3-0,5	0,1-0,3-0,5-1	1	4	BE.4D100040
	50	36	0,03-0,1-0,3-0,5	0,1-0,3-0,5-1	1	4	BE.4D100050
	63	36	0,03-0,1-0,3-0,5	0,1-0,3,0,5-1	1	4	BE.4D100063
	80	36	0,03-0,1-0,3-0,5	0,1-0,3-0,5-1	1	4	BE.4D100080
	100	36	0,03-0,1-0,3-0,5	0,1-0,3,0,5-1	1	4	BE.4D100100
BED225	125	36	0,03-0,1-0,3-0,5	0,1-0,3-0,5-1	1	2	BE.4D225125
	160	36	0,03-0,1-0,3-0,5	0,1-0,3,0,5-1	1	2	BE.4D225160
	200	36	0,03-0,1-0,3-0,5	0,1-0,3-0,5-1	1	2	BE.4D225200
BED400	250	50	0,1-0,3,0,5-1	0,1-0,3,0,5-1	1	2	BE.4D400250
	320	50	0,1-0,3-0,5-1	0,1-0,3-0,5-1	1	2	BE.4D400320
	400	50	0,1-0,3,0,5-1	0,1-0,3,0,5-1	1	2	BE.4D400400
BED630	630	50	0,1-0,3-0,5-1	0,1-0,3-0,5-1	1	1	BE.4D630630

Note: D630 and D400 Type ELCB are included busbars



4 Poles Earth Leakage Circuit Breakers (with Shunt Trip)

Type Code	Rated Current In (A)	Breaking Cap. Icu (kA)	Threshold Current(A)	Threshold Time (s)	Minimum Order	Pack Qty	Order Code
BED100	40	36	0,03-0,1-0,3-0,5	0,1-0,3-0,5-1	1	4	BE.4E100040
	50	36	0,03-0,1-0,3-0,5	0,1-0,3-0,5-1	1	4	BE.4E100050
	63	36	0,03-0,1-0,3-0,5	0,1-0,3,0,5-1	1	4	BE.4E100063
	80	36	0,03-0,1-0,3-0,5	0,1-0,3-0,5-1	1	4	BE.4E100080
	100	36	0,03-0,1-0,3-0,5	0,1-0,3,0,5-1	1	4	BE.4E100100
BED225	125	36	0,03-0,1-0,3-0,5	0,1-0,3-0,5-1	1	2	BE.4E225125
	160	36	0,03-0,1-0,3-0,5	0,1-0,3,0,5-1	1	2	BE.4E225160
	200	36	0,03-0,1-0,3-0,5	0,1-0,3-0,5-1	1	2	BE.4E225200
BED400	250	50	0,1-0,3,0,5-1	0,1-0,3,0,5-1	1	2	BE.4E400250
	320	50	0,1-0,3-0,5-1	0,1-0,3-0,5-1	1	2	BE.4E400320
	400	50	0,1-0,3,0,5-1	0,1-0,3,0,5-1	1	2	BE.4E400400
BED630	630	50	0,1-0,3-0,5-1	0,1-0,3-0,5-1	1	1	BE.4E630630

Note: D630 and D400 Type ELCB are included busbars



3 Poles Earth Leakage Circuit Breakers (ELCB)



Type Code	Rated Current In (A)	Breaking Cap. Icu (kA)	Threshold Current(A)	Threshold Time (s)	Minimum Order	Pack Qty	Order Code
BEF250	25	36	0,03-0,3-0,5-1-3	0-0,1-0,5-1	1	4	BE.3F250025
	32	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	4	BE.3F250032
	40	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	4	BE.3F250040
	50	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	4	BE.3F250050
	63	36	0,03-0,3-0,5-1-3	0,1-0,3,0,5-1	1	4	BE.3F250063
	80	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	4	BE.3F250080
	100	36	0,03-0,3-0,5-1-3	0,1-0,3,0,5-1	1	4	BE.3F250100
	125	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	2	BE.3F250125
	160	36	0,03-0,3-0,5-1-3	0,1-0,3,0,5-1	1	2	BE.3F250160
	200	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	2	BE.3F250200
	250	50	0,03-0,3-0,5-1-3	0,1-0,3,0,5-1	1	2	BE.3F250250

3 Poles Fixed Type Air Circuit Breakers

Type Code	Rated Current In (A)	Breaking Cap. Icu (kA)	Type Of Mechanism	Order Code
BEFA-1600	252-630	80	Manual	BE.SFA0630H3
	320-800	80	Manual	BE.SFA0800H3
	400-1000	80	Manual	BE.SFA1000H3
	500-1250	80	Manual	BE.SFA1250H3
	640-1600	80	Manual	BE.SFA1600H3
BEFA-2000	1200-2000	80	Manual	BE.SFA2000H3
BEFA-2500	1000-2500	100	Manual	BE.SFA2500H3
BEFA-3200	1280-3200	100	Manual	BE.SFA3200H3
BEFA-4000	1600-4000	100	Manual	BE.SFA4000H3
BEFA-1600	252-630	80	Motorized	BE.SFA0630M3
	320-800	80	Motorized	BE.SFA0800M3
	400-1000	80	Motorized	BE.SFA1000M3
	500-1250	80	Motorized	BE.SFA1250M3
	640-1600	80	Motorized	BE.SFA1600M3
BEFA-2000	1200-2000	80	Motorized	BE.SFA2000M3
BEFA-2500	1000-2500	100	Motorized	BE.SFA2500M3
BEFA-3200	1280-3200	100	Motorized	BE.SFA3200M3
BEFA-4000	1600-4000	100	Motorized	BE.SFA4000M3



3 Poles Earth Leakage Circuit Breakers (with Shunt Trip)



Type Code	Rated Current In (A)	Rated Current Icu (kA)	Threshold Current(A)	Threshold Time (s)	Minimum Order	Pack Qty	Order Code
BEF250	25	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	4	BE.3G250025
	32	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	4	BE.3G250032
	40	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	4	BE.3G250040
	50	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	4	BE.3G250050
	63	36	0,03-0,3-0,5-1-3	0,1-0,3,0,5-1	1	4	BE.3G250063
	80	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	4	BE.3G250080
	100	36	0,03-0,3-0,5-1-3	0,1-0,3,0,5-1	1	4	BE.3G250100
	125	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	2	BE.3G250125
	160	36	0,03-0,3-0,5-1-3	0,1-0,3,0,5-1	1	2	BE.3G250160
	200	36	0,03-0,3-0,5-1-3	0,1-0,3-0,5-1	1	2	BE.3G250200
	250	36	0,03-0,3-0,5-1-3	0,1-0,3,0,5-1	1	2	BE.3G250250

4 Poles Fixed Type Air Circuit Breakers

Type Code	Rated Current In (A)	Breaking Cap. Icu (kA)	Type Of Mechanism	Order Code
BEFA-1600	400-1000	80	Manual	BE.SFA1000H4
	500-1250	80	Manual	BE.SFA1250H4
	640-1600	80	Manual	BE.SFA1600H4
BEFA-2000	1200-2000	80	Manual	BE.SFA2000H4
BEFA-2500	1000-2500	100	Manual	BE.SFA2500H4
BEFA-3200	1280-3200	100	Manual	BE.SFA3200H4
(*)BEDA-4000	1600-4000	100	Manual	BE.SDA4000H4
BEFA-1600	400-1000	80	Motorized	BE.SFA1000M4
	500-1250	80	Motorized	BE.SFA1250M4
	640-1600	80	Motorized	BE.SFA1600M4
BEFA-2000	1200-2000	80	Motorized	BE.SFA2000M4
BEFA-2500	1000-2500	100	Motorized	BE.SFA2500M4
BEFA-3200	1280-3200	100	Motorized	BE.SFA3200M4
(*)BEDA-4000	1600-4000	100	Motorized	BE.SDA4000M4



Note: (*) 4 Poles 4000A ACBs are produced as Drawable Type and included 4NO+4NC Aux. Contact

Aux. Contact



Type Of ELCB	Aux. Contact	Order Code
BED100	1NO+1NC	BE.4D100YK
BED225	1NO+1NC	BE.4D225YK
BED400	1NO+1NC	BE.4D400YK
BED630	1NO+1NC	BE.4D630YK
BEF250	1NO+1NC	BE.3K160YK

Shunt Trip



Type Of ELCB	Voltage Supply (V)	Order Code
BED100	230	BE.4D100AB
BED225	230	BE.4D225AB
BED400	230	BE.4D400AB
BED630	230	BE.4D630AB
BEF250	230	BE.3K160AB

3 Poles Drawable Type Air Circuit Breakers



Type Code	Rated Current In (A)	Breaking Cap. Icu (kA)	Type Of Mechanism	Order Code
BEDA-1000	400-1000	80	Manual	BE.SDA1000H3
BEDA-1250	500-1250	80	Manual	BE.SDA1250H3
BEDA-1600	640-1600	80	Manual	BE.SDA1600H3
BEDA-2000	1200-2000	80	Manual	BE.SDA2000H3
BEDA-2500	1000-2500	100	Manual	BE.SDA2500H3
BEDA-3200	1280-3200	100	Manual	BE.SDA3200H3
BEDA-4000	1600-4000	100	Manual	BE.SDA4000H3
BEDA-5000	2000-5000	100	Manual	BE.SDA5000H3
BEDA-6300	2560-6300	100	Manual	BE.SDA6300H3
BEDA-1000	400-1000	80	Motorized	BE.SDA1000M3
BEDA-1250	500-1250	80	Motorized	BE.SDA1250M3
BEDA-1600	640-1600	80	Motorized	BE.SDA1600M3
BEDA-2000	1200-2000	80	Motorized	BE.SDA2000M3
BEDA-2500	1000-2500	100	Motorized	BE.SDA2500M3
BEDA-3200	1280-3200	100	Motorized	BE.SDA3200M3
BEDA-4000	1600-4000	100	Motorized	BE.SDA4000M3
BEDA-5000	2000-5000	100	Motorized	BE.SDA5000M3
BEDA-6300	2560-6300	100	Motorized	BE.SDA6300M3

Not: Air Circuit Breakers are included 4NO++NC Aux. Contact

Accessories For Air Circuit Breakers



Type Code	Description	Specification	Order Code
BEADG	Undervoltage Release	230 V AC	BE.SADG230
	Undervoltage Release	380 V AC	BE.SADG380
BEAGDG	Delay Type Undervoltage Release	230 V AC	BE.SAGDG230
	Delay Type Undervoltage Release	380 V AC	BE.SAGDG380
BEAAB	Shunt Trip Release	220 V AC	BE.SAAB
BEAKB	Closing Release	220 V AC	BE.SAKB
BEAMM-1	Motor Operator(630...2000 A)	220 V AC	BE.SAM1
BEAMM-2	Motor Operator (2500..6300 A)	220 V AC	BE.SAM2
BEAMK	Mechanical Interlock	Cable Type	BE.SAMK



Horizontal Type Load Break Switch

Type Code	Rated Current In (A)	Size	Minimum Order	Pack Qty	Order Code
BEFH-160	160	00 (Without fuse)	1	1	BE.SFH160



NH Fuses

Type	Rated Current In (A)	Breaking Cap. (kA)	Minimum order/ pcs	Pack Qty	Order Code
BENHC00	6	120	3	120	BE.SNH00006
	10	120	3	120	BE.SNH00010
	16	120	3	120	BE.SNH00016
	20	120	3	120	BE.SNH00020
	25	120	3	120	BE.SNH00025
	32	120	3	120	BE.SNH00032
	40	120	3	120	BE.SNH00040
	50	120	3	120	BE.SNH00050
	63	120	3	120	BE.SNH00063
	80	120	3	120	BE.SNH00080
BENH00	100	120	3	120	BE.SNH00100
	125	120	3	120	BE.SNH00125
	160	120	3	120	BE.SNH00160



NH Fuse Base

Type	Rated Current In (A)	Breaking Cap. (kA)	Minimum Order	Pack Qty	Order Code
BENH00	Steatit	160	5	120	BE.SNB00



Technical Specifications For Mini Circuit Breakers

Type			BEND 3000				BEND 4500				BEND 6000				BEDC 6000		BELD 6000				BEND 10000				BELD 10000				BEND 16000	
No Of Poles			1	2	3	4	1	2	3	4	1	2	3	4	1	2	1	2	3	4	1	2	3	4	1	2	3	4	1	
Rated Current (at 40° C)	In	A	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63				1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63				1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50,63				6, 10, 16, 20, 25, 32, 40, 50, 63		80,100,125				2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63				80,100,125				40, 50, 63, 80, 100, 125	
InstantaneousTrippingCharasterictic			B: (3-5)xIn C :(5-10)xIn				B: (3-5)xIn C :(5-10)xIn D: (10-20)xIn				B: (3-5)xIn C :(5-10)xIn D: (10-20)xIn				C (7-14)xIn		C :(5-10)xIn				B: (3-5)xIn C :(5-10)xIn D: (10-20)xIn				C :(5-10)xIn				C :(5-10)xIn	
Type Of Protection Network			AC												DC		AC													
Rated Voltage	Ue	AC (V)	230/400	400		230/400		400		230/400		400		250	500	230/400	400		230/400	400		230/400	400		230/400	400		230/400		
Rated Insulation Voltage	Ui	V	500												440		500				500			500						
Rated impulse Voltage	Uimp	kV	6												4		6													
Rated Breaking Capacity	Icu	kA	3			4.5			6			6				10				16										
Rated Service Capacity	Ics (= %Icu)		100												100				75											
Selectivity Class			3												3															
Electrical Life	op.	230 (V)	4.000												4.000												2.000			
Mechanical Life	op.		20000												20000												15000			
Protection Degree			IP 20												IP 20															
Ambient Operating Temperature		°C	-30 to +60												-30 to +60															
Storage Temperature		°C	-40 to +70												-40 to +70															
Color			RAL 7035												RAL 7035															
Assembly (EN 60715)			35 mm. DIN Rail												35 mm. DIN Rail															
Connection Capacity		mm²	1-25												1-25		1.5-50		1-25		1.5-50		2,5-50							
Max. Tighntenning Torque			2												2		3,5		2		3,5		3,5							



Mini Circuit Breaker

3 kA

Miniature Circuit Breakers



No Of Poles	Rated Current In (A)	Minimum Order	Pack /Qty	Order Code For B Type	Order Code For C Type
1P	2	12	240	BE.3SM102B	BE.3SM102C
	4	12	240	BE.3SM104B	BE.3SM104C
	6	12	240	BE.3SM106B	BE.3SM106C
	10	12	240	BE.3SM110B	BE.3SM110C
	16	12	240	BE.3SM116B	BE.3SM116C
	20	12	240	BE.3SM120B	BE.3SM120C
	25	12	240	BE.3SM125B	BE.3SM125C
	32	12	240	BE.3SM132B	BE.3SM132C
	40	12	240	BE.3SM140B	BE.3SM140C
	50	12	240	BE.3SM150B	BE.3SM150C
	63	12	240	BE.3SM163B	BE.3SM163C
2P	2	6	120		BE.3SM202C
	4	6	120		BE.3SM204C
	6	6	120		BE.3SM206C
	10	6	120		BE.3SM210C
	16	6	120		BE.3SM216C
	20	6	120		BE.3SM220C
	25	6	120		BE.3SM225C
	32	6	120		BE.3SM232C
	40	6	120		BE.3SM240C
	50	6	120		BE.3SM250C
	63	6	120		BE.3SM263C
3P	2	4	80		BE.3SM302C
	4	4	80		BE.3SM304C
	6	4	80		BE.3SM306C
	10	4	80		BE.3SM310C
	16	4	80		BE.3SM316C
	20	4	80		BE.3SM320C
	25	4	80		BE.3SM325C
	32	4	80		BE.3SM332C
	40	4	80		BE.3SM340C
	50	4	80		BE.3SM350C
	63	4	80		BE.3SM363C
4P	2	3	60		BE.3SM402C
	4	3	60		BE.3SM404C
	6	3	60		BE.3SM406C
	10	3	60		BE.3SM410C
	16	3	60		BE.3SM416C
	20	3	60		BE.3SM420C
	25	3	60		BE.3SM425C
	32	3	60		BE.3SM432C
	40	3	60		BE.3SM440C
	50	3	60		BE.3SM450C
	63	3	60		BE.3SM463C

4.5 kA

Mini Circuit Breaker



No Of Poles	Rated Current In (A)	Minimum Order	Pack/Qty	Order Code For B Type	Order Code For C Type	Order Code For D Type
1P	1	12	240	BE.4SM101B	BE.4SM101C	BE.4SM101D
	2	12	240	BE.4SM102B	BE.4SM102C	BE.4SM102D
	3	12	240	BE.4SM103B	BE.4SM103C	BE.4SM103D
	4	12	240	BE.4SM104B	BE.4SM104C	BE.4SM104D
	5	12	240	BE.4SM105B	BE.4SM105C	BE.4SM105D
	6	12	240	BE.4SM106B	BE.4SM106C	BE.4SM106D
	10	12	240	BE.4SM110B	BE.4SM110C	BE.4SM110D
	16	12	240	BE.4SM116B	BE.4SM116C	BE.4SM116D
	20	12	240	BE.4SM120B	BE.4SM120C	BE.4SM120D
	25	12	240	BE.4SM125B	BE.4SM125C	BE.4SM125D
	32	12	240	BE.4SM132B	BE.4SM132C	BE.4SM132D
	40	12	240	BE.4SM140B	BE.4SM140C	BE.4SM140D
	50	12	240	BE.4SM150B	BE.4SM150C	BE.4SM150D
	63	12	240	BE.4SM163B	BE.4SM163C	BE.4SM163D
2P	2	6	120		BE.4SM202C	BE.4SM202D
	4	6	120		BE.4SM204C	BE.4SM204D
	6	6	120		BE.4SM206C	BE.4SM206D
	10	6	120		BE.4SM210C	BE.4SM210D
	16	6	120		BE.4SM216C	BE.4SM216D
	20	6	120		BE.4SM220C	BE.4SM220D
	25	6	120		BE.4SM225C	BE.4SM225D
	32	6	120		BE.4SM232C	BE.4SM232D
	40	6	120		BE.4SM240C	BE.4SM240D
	50	6	120		BE.4SM250C	BE.4SM250D
	63	6	120		BE.4SM263C	BE.4SM263D
3P	2	4	80		BE.4SM302C	BE.4SM302D
	4	4	80		BE.4SM304C	BE.4SM304D
	6	4	80		BE.4SM306C	BE.4SM306D
	10	4	80		BE.4SM310C	BE.4SM310D
	16	4	80		BE.4SM316C	BE.4SM316D
	20	4	80		BE.4SM320C	BE.4SM320D
	25	4	80		BE.4SM325C	BE.4SM325D
	32	4	80		BE.4SM332C	BE.4SM332D
	40	4	80		BE.4SM340C	BE.4SM340D
	50	4	80		BE.4SM350C	BE.4SM350D
	63	4	80		BE.4SM363C	BE.4SM363D
4P	2	3	60		BE.4SM402C	BE.4SM402D
	4	3	60		BE.4SM404C	BE.4SM404D
	6	3	60		BE.4SM406C	BE.4SM406D
	10	3	60		BE.4SM410C	BE.4SM410D
	16	3	60		BE.4SM416C	BE.4SM416D
	20	3	60		BE.4SM420C	BE.4SM420D
	25	3	60		BE.4SM425C	BE.4SM425D
	32	3	60		BE.4SM432C	BE.4SM432D
	40	3	60		BE.4SM440C	BE.4SM440D
	50	3	60		BE.4SM450C	BE.4SM450D
	63	3	60		BE.4SM463C	BE.4SM463D

Miniature Circuit Breakers

Mini Circuit Breaker

6 kA

10 kA

Mini Circuit Breaker

Miniature Circuit Breakers



No Of Poles	Rated Current In (A)	Minimum Order	Pack/Qty	Order Code For B Type	Order Code For C Type	Order Code For D Type
1P	1	12	240	BE.6SM101B	BE.6SM101C	BE.6SM101D
	2	12	240	BE.6SM102B	BE.6SM102C	BE.6SM102D
	3	12	240	BE.6SM103B	BE.6SM103C	BE.6SM103D
	4	12	240	BE.6SM104B	BE.6SM104C	BE.6SM104D
	5	12	240	BE.6SM105B	BE.6SM105C	BE.6SM105D
	6	12	240	BE.6SM106B	BE.6SM106C	BE.6SM106D
	10	12	240	BE.6SM110B	BE.6SM110C	BE.6SM110D
	16	12	240	BE.6SM116B	BE.6SM116C	BE.6SM116D
	20	12	240	BE.6SM120B	BE.6SM120C	BE.6SM120D
	25	12	240	BE.6SM125B	BE.6SM125C	BE.6SM125D
	32	12	240	BE.6SM132B	BE.6SM132C	BE.6SM132D
	40	12	240	BE.6SM140B	BE.6SM140C	BE.6SM140D
	50	12	240	BE.6SM150B	BE.6SM150C	BE.6SM150D
	63	12	240	BE.6SM163B	BE.6SM163C	BE.6SM163D
2P	2	6	120		BE.6SM202C	BE.6SM202D
	4	6	120		BE.6SM204C	BE.6SM204D
	6	6	120		BE.6SM206C	BE.6SM206D
	10	6	120		BE.6SM210C	BE.6SM210D
	16	6	120		BE.6SM216C	BE.6SM216D
	20	6	120		BE.6SM220C	BE.6SM220D
	25	6	120		BE.6SM225C	BE.6SM225D
	32	6	120		BE.6SM232C	BE.6SM232D
	40	6	120		BE.6SM240C	BE.6SM240D
	50	6	120		BE.6SM250C	BE.6SM250D
	63	6	120		BE.6SM263C	BE.6SM263D
3P	2	4	80		BE.6SM302C	BE.6SM302D
	4	4	80		BE.6SM304C	BE.6SM304D
	6	4	80		BE.6SM306C	BE.6SM306D
	10	4	80		BE.6SM310C	BE.6SM310D
	16	4	80		BE.6SM316C	BE.6SM316D
	20	4	80		BE.6SM320C	BE.6SM320D
	25	4	80		BE.6SM325C	BE.6SM325D
	32	4	80		BE.6SM332C	BE.6SM332D
	40	4	80		BE.6SM340C	BE.6SM340D
	50	4	80		BE.6SM350C	BE.6SM350D
	63	4	80		BE.6SM363C	BE.6SM363D
4P	2	3	60		BE.6SM402C	BE.6SM402D
	4	3	60		BE.6SM404C	BE.6SM404D
	6	3	60		BE.6SM406C	BE.6SM406D
	10	3	60		BE.6SM410C	BE.6SM410D
	16	3	60		BE.6SM416C	BE.6SM416D
	20	3	60		BE.6SM420C	BE.6SM420D
	25	3	60		BE.6SM425C	BE.6SM425D
	32	3	60		BE.6SM432C	BE.6SM432D
	40	3	60		BE.6SM440C	BE.6SM440D
	50	3	60		BE.6SM450C	BE.6SM450D
	63	3	60		BE.6SM463C	BE.6SM463D

No Of Poles	Rated Current In (A)	Minimum Order	Pack/Qty	Order Code For B Type	Order Code For C Type	Order Code For D type
1P	2	12	240	BE.1SM102B	BE.1SM102C	BE.1SM102D
	4	12	240	BE.1SM104B	BE.1SM104C	BE.1SM104D
	6	12	240	BE.1SM106B	BE.1SM106C	BE.1SM106D
	10	12	240	BE.1SM110B	BE.1SM110C	BE.1SM110D
	16	12	240	BE.1SM116B	BE.1SM116C	BE.1SM116D
	20	12	240	BE.1SM120B	BE.1SM120C	BE.1SM120D
	25	12	240	BE.1SM125B	BE.1SM125C	BE.1SM125D
	32	12	240	BE.1SM132B	BE.1SM132C	BE.1SM132D
	40	12	240	BE.1SM140B	BE.1SM140C	BE.1SM140D
	50	12	240	BE.1SM150B	BE.1SM150C	BE.1SM150D
	63	12	240	BE.1SM163B	BE.1SM163C	BE.1SM163D
2P	2	6	120		BE.1SM202C	BE.1SM202D
	4	6	120		BE.1SM204C	BE.1SM204D
	6	6	120		BE.1SM206C	BE.1SM206D
	10	6	120		BE.1SM210C	BE.1SM210D
	16	6	120		BE.1SM216C	BE.1SM216D
	20	6	120		BE.1SM220C	BE.1SM220D
	25	6	120		BE.1SM225C	BE.1SM225D
	32	6	120		BE.1SM232C	BE.1SM232D
	40	6	120		BE.1SM240C	BE.1SM240D
	50	6	120		BE.1SM250C	BE.1SM250D
	63	6	120		BE.1SM263C	BE.1SM263D
3P	2	4	80		BE.1SM302C	BE.1SM302D
	4	4	80		BE.1SM304C	BE.1SM304D
	6	4	80		BE.1SM306C	BE.1SM306D
	10	4	80		BE.1SM310C	BE.1SM310D
	16	4	80		BE.1SM316C	BE.1SM316D
	20	4	80		BE.1SM320C	BE.1SM320D
	25	4	80		BE.1SM325C	BE.1SM325D
	32	4	80		BE.1SM332C	BE.1SM332D
	40	4	80		BE.1SM340C	BE.1SM340D
	50	4	80		BE.1SM350C	BE.1SM350D
	63	4	80		BE.1SM363C	BE.1SM363D
4P	2	3	60		BE.1SM402C	BE.1SM402D
	4	3	60		BE.1SM404C	BE.1SM404D
	6	3	60		BE.1SM406C	BE.1SM406D
	10	3	60		BE.1SM410C	BE.1SM410D
	16	3	60		BE.1SM416C	BE.1SM416D
	20	3	60		BE.1SM420C	BE.1SM420D
	25	3	60		BE.1SM425C	BE.1SM425D
	32	3	60		BE.1SM432C	BE.1SM432D
	40	3	60		BE.1SM440C	BE.1SM440D
	50	3	60		BE.1SM450C	BE.1SM450D
	63	3	60		BE.1SM463C	BE.1SM463D



Miniature Circuit Breakers

80-100-125A Mini Circuit Breakers6 kA



No Of Poles	Rated Current In (A)	Minimum Order /pcs	Pack /Qty	Order Code
1P	80	8	120	BE.6SL180C
	100	8	120	BE.6SL100C
	125	8	120	BE.6SL112C
2P	80	4	60	BE.6SL280C
	100	4	60	BE.6SL200C
	125	4	60	BE.6SL212C
3P	80	2	40	BE.6SL380C
	100	2	40	BE.6SL300C
	125	2	40	BE.6SL312C
4P	80	2	30	BE.6SL480C
	100	2	30	BE.6SL400C
	125	2	30	BE.6SL412C

80-100-125A Mini Circuit Breakers10 kA



No Of Poles	Rated Current In (A)	Minimum Order /Pcs	Pack/Qty	Order Code
1P	C80	8	160	BE.1SL180C
	C100	8	160	BE.1SL100C
	C125	8	160	BE.1SL112C
2P	C80	4	80	BE.1SL280C
	C100	4	80	BE.1SL200C
	C125	4	80	BE.1SL212C
3P	C80	2	40	BE.1SL380C
	C100	2	40	BE.1SL300C
	C125	2	40	BE.1SL312C
4P	C80	2	40	BE.1SL480C
	C100	2	40	BE.1SL400C
	C125	2	40	BE.1SL412C

Mini Circuit Breakers16 kA



No Of Poles	Rated Current In (A)	Minimum Order /pcs	Order Code
1P	C40	1	BE.5SM140C
	C50	1	BE.5SM150C
	C63	1	BE.5SM163C
	C80	1	BE.5SM180C
	C100	1	BE.5SM100C
	C125	1	BE.5SM125C

4.5 kADPN (18mm Width) Mini Circuit Breakers



No Of Poles	Rated Current In (A)	Minimum Order /Pcs	Pack/Qty	Order Code
1P+N	6	12	240	BE.4SN106C
	10	12	240	BE.4SN110C
	16	12	240	BE.4SN116C
	20	12	240	BE.4SN120C
	25	12	240	BE.4SN125C
	32	12	240	BE.4SN132C

6 kADC Mini Circuit Breakers



No Of Poles	Rated Current In (A)	Minimum Order /pcs	Pack/Qty	Order Code
1P	6	12	240	BE.1SD106C
	10	12	240	BE.1SD110C
	16	12	240	BE.1SD116C
	20	12	240	BE.1SD120C
	25	12	240	BE.1SD125C
	32	12	240	BE.1SD132C
	40	12	240	BE.1SD140C
	50	12	240	BE.1SD150C
2P	63	12	240	BE.1SD163C
	6	6	120	BE.1SD206C
	10	6	120	BE.1SD210C
	16	6	120	BE.1SD216C
	20	6	120	BE.1SD220C
	25	6	120	BE.1SD225C
	32	6	120	BE.1SD232C
	40	6	120	BE.1SD240C
	50	6	120	BE.1SD250C
	63	6	120	BE.1SD263C

Accessories



Type Code	Description	Order Code
BENAB	AC-DC 110-400 V shunt trip release (for 4.5-6 kA)	BE.SNAB220
	AC-DC 24-48 V shunt trip release (for 4.5-6 kA)	BE.SNAB024
BENYK	1NO+1NC aux.contact (for 4.5-6 kA)	BE.SNYK011
BEMAB	110-415 V AC / 110-220 V DC shunt trip release (for 10 kA)	BE.SMAB220
	24 V AC shunt trip release (for 10 kA)	BE.SMAB024
BEMYK	1NO+1NC aux.contact+alarm contact (lth:6 A , 250 V AC) (for 10 kA)	BE.SMYK011
BEMEK	Safety Lock	BE.SMEK

Necessary Information For MCB Ordering

- Rated Current (1...125A)
- Rated Breaking Capacity (3kA - 4.5kA - 6kA - 10kA - 16kA)
- No Of Poles (1P-2P-3P-4P)
- Tripping Curve (B-C-D)

Selection Of the MCB According To Instantaneous Tripping Curve

B Curve : They are used for protection of incandescent Lambs, heaters and PLC systems.

C Curve : They are used for protection of fluorescent lambs, power socket circuits, machines, low Power

Motors, Air conditions, Refrigerating Machines, Power Distribution panelboards.

D Curve: They are used for Direct online starters, pumps, Compressors, power capacitors,

Welding and spot welding machines.

MCB Tripping and Untripping Conditions

Tripping Curve	Rated Current	Test Current	Tripping Time	Result
B,C,D	In≤63	1.13 In	t ≥ 3600s	Untrip
B,C,D	In≤63	1.45 In	t < 3600s	Trip
B,C,D	In>63	1.13 In	t ≥ 7200s	Untrip
B,C,D	In>63	1.45 In	t < 7200s	Trip
B,C,D	In≤32	2.55 In	1s < t < 60s	Trip
B,C,D	In>32	2.55 In	1s < t < 120s	Trip
B	all	3 In	t ≥ 0.1s	Untrip
B	all	5 In	t < 0.1s	Trip
C	all	5 In	t ≥ 0.1s	Untrip
C	all	10 In	t < 0.1s	Trip
D	all	10 In	t ≥ 0.1s	Untrip
D	all	20 In	t < 0.1s	Trip

Din Rail Type Led Signal Indicators



Color	Rated Voltage	MinimumOrder/Pcs	Pack/Qty	Order Code
Blue	220 V AC	12	120	BE.SSL-B220A
	24 V AC	12	120	BE.SSL-B024A
	24 V DC	12	120	BE.SSL-B024D
Red	220 V AC	12	120	BE.SSL-R220A
	24 V AC	12	120	BE.SSL-R024A
	24 V DC	12	120	BE.SSL-R024D
Green	220 V AC	12	120	BE.SSL-G220A
	24 V AC	12	120	BE.SSL-G024A
	24 VDC	12	120	BE.SSL-G024D
Yellow	220 V AC	12	120	BE.SSL-Y220A
	24 V AC	12	120	BE.SSL-Y024A
	24 V DC	12	120	BE.SSL-Y024D

Din Rail Type Socket



Specifications	Minimum Order /pcs	Pack/Qty	Order Code
16 A 230 V Earthed Socket	5	100	BE.SPP-16T

Isolators (No Protection)

No Of Poles	Rated Current In (A)	MinimumOrder/Pcs	Pack/Qty	Order Code
1P	40	12	240	BE.SYA1040
	63	12	240	BE.SYA1063
	80	12	240	BE.SYA1080
	100	12	240	BE.SYA1100
	125	12	240	BE.SYA1125
2P	40	6	120	BE.SYA2040
	63	6	120	BE.SYA2063
	80	6	120	BE.SYA2080
	100	6	120	BE.SYA2100
	125	6	120	BE.SYA2125
3P	40	4	80	BE.SYA3040
	63	4	80	BE.SYA3063
	80	4	80	BE.SYA3080
	100	4	80	BE.SYA3100
	125	4	80	BE.SYA3125
4P	40	6	60	BE.SYA4040
	63	6	60	BE.SYA4063
	80	6	60	BE.SYA4080
	100	6	60	BE.SYA4100
	125	6	60	BE.SYA4125



Impulse Leakage Relay

Description	MinimumOrder/Pcs	Order Code
16 A 230 V 1NO	1	BE.SDA-16A



LV Surge Protection Devices

Type	Description	No Of Poles	Uc (V) AC	I _{max} (kA)	I _n (kA)	Up (kV)	Order Code
BEP1-B100	Type1/ B Class	1	255	50 (10/350μs)	100	<2.5	BE.SP1-B100
BEP4-B100	Type1/ B Class	4	255	50 (10/350μs)	100	<2.5	BE.SP4-B100
BEP1-C040	Type2/ C Class	1	275	40 (8/20μs)	20	<1.4	BE.SP1-C040
BEP2-C040	Type2/ C Class	2	275	40 (8/20μs)	20	<1.4	BE.SP2-C040
BEP3-C040	Type2/ C Class	3	275	40 (8/20μs)	20	<1.4	BE.SP3-C040
BEP4-C040	Type2/ C Class	4	275	40 (8/20μs)	20	<1.4	BE.SP4-C040
BEP1-D005	Type3/ D Class	1	275	5 (8/20μs)	3	<1	BE.SP1-D005

Note: All the LV Surge Protection devices except B Type are included Alarm Contact



Cylindrical (cartridge) Fuse Holder



Type	Rated Current(A)	No Of Poles	Cartridge (mmxmm)	Min. Order/Pcs	Pack/Qty	Order Code
BEFH-232	32	1	10x38	12	360	BE.SFH132
	32	1P+N	10x38	6	180	BE.SFH232
	32	3	10x38	4	90	BE.SFH332

10x38 mm Cylindrical (Cartridge) Fuses



Type	Rated Current (A)	No Of Poles	Cartridge	Min. Order/Pcs	Pack /Qty	Order Code
gG type Fuses (for general protection of the cables and electrical circuits against overload and short circuit.	2	500	100	10	2000	BE.SFLG02
	4	500	100	10	2000	BE.SFLG04
	6	500	100	10	2000	BE.SFLG06
	10	500	100	10	2000	BE.SFLG10
	16	500	100	10	2000	BE.SFLG16
	20	500	100	10	2000	BE.SFLG20
	25	500	100	10	2000	BE.SFLG25
	32	500	100	10	2000	BE.SFLG32
aM type fuses (for the protection of motor circuits against short circuit)	2	500	100	10	2000	BE.SFLM02
	4	500	100	10	2000	BE.SFLM04
	6	500	100	10	2000	BE.SFLM06
	10	500	100	10	2000	BE.SFLM10
	16	500	100	10	2000	BE.SFLM16
	20	500	100	10	2000	BE.SFLM20
	25	500	100	10	2000	BE.SFLM25
aR type high speed Fuses (for protection of UPS, soft starter , inverter, convertor, AC/DC drivers)	2	500	100	10	2000	BE.SFLR02
	4	500	100	10	2000	BE.SFLR04
	6	500	100	10	2000	BE.SFLR06
	10	500	100	10	2000	BE.SFLR10
	16	500	100	10	2000	BE.SFLR16
	20	500	100	10	2000	BE.SFLR20
	25	500	100	10	2000	BE.SFLR25
	32	500	100	10	2000	BE.SFLR32



Technical Specifications For Residual Current Circuit Breakers

Type			BEGM-2	BEGM-4	BEFM-2	BEFM-4	BEHM-2	BEHM-4	BEDM-2	BEDM-4	
No Of Poles			2	4	2	4	2	4	2	4	
Rated Current	In	A	25-40-63-80-100				25,40,63,80,100				
Rated Residual Current	IΔ	mA	30, 300				30, 300				
Rated Frequency		Hz	50-60				50-60				
Current Selectivity			AC		A	A	AC		AC		
Tripping Unit			Electro-mechanic								
Tripping Time			0.5.....1 x IΔn		0.11.....1.4 x IΔn		0.11.....1.4 x IΔn		0.5.....1 x IΔn		
Delay Time(At IΔn)		ms	< 200				< 200		130<t<500		
Type according to delay			General				General		Delay Time Selectivity		
Rated Voltage	Ue	(AC) V	240	415	240	415	240	415	240	415	
Rated Insulated Voltage		V	660				660				
Rated Impulse Voltage	Uimp	kV	6				6				
Rated Short-Circuit Withstand Current (With NH Fuses)		kA	10				10	6			
Electrical Life	operasyon	(230 V)	6000				6000				
Mechanical Life	operasyon		20000				20000				
Degree Of Protection (After Assembly)			IP 20 (IP 40)				IP 20 (IP 40)				
Ambient Operational Temperature		°C	-25 to +60				-25 ile +60				
Max. Storage Temperature (IEC 88)		°C	-40 to +70				-40 ile +70				
Dimensions	En	mm	35	70	35	70	35	70	35	70	
	Boy	mm	80				80				
Color			RAL 7035				RAL 7035				
Assembly way(EN 60715)			35 mm DIN Rail				35 mm DIN Rail				
Connection Capacity (min./max)		mm²	1.5-35				1.5-35				



ResidualCurrentCircuitBreaker(ACType) 6 kA



Type Code	Rated Current In (A)	No Of Poles	Protection	Rated Residual CurrentI _{fn} (mA)	Tripping Time (ms)	Pack/Qty	Order Code
BEHM-2	25	2	Life Protection	30	Without Delay	100	BE.SHM2025030
	40					100	BE.SHM2040030
	63					100	BE.SHM2063030
	80					100	BE.SHM2080030
	25	2	Fire Protection	300	Without Delay	100	BE.SHM2025300
	40					100	BE.SHM2040300
	63					100	BE.SHM2063300
	80					100	BE.SHM2080300
BEHM-4	25	4	Life Protection	30	Without Delay	50	BE.SHM4025030
	40					50	BE.SHM4040030
	63					50	BE.SHM4063030
	80					50	BE.SHM4080030
	100					50	BE.SHM4100030
	25	4	Fire Protection	300	Without Delay	50	BE.SHM4025300
	40					50	BE.SHM4040300
	63					50	BE.SHM4063300
	80					50	BE.SHM4080300
	100					50	BE.SHM4100300
BEDM-2	40	2	Fire Protection (selectivity)	300	Min. 130 ms	100	BE.SDM2040300
	63					100	BE.SDM2063300
	80					100	BE.SDM2080300
BEDM-4	40	4	Fire Protection (selectivity)	300	Min. 130 ms	50	BE.SDM4040300
	63					50	BE.SDM4063300
	80					50	BE.SDM4080300



10 kA Residual Current Circuit Breaker(AC Type)

Type Code	Rated Current In (A)	No Of Poles	Protection	Rated Residual CurrentI _{fn} (mA)	Tripping Time (ms)	Pack/Qty	Order Code
BEGM-2	25	2	Life Protection	30	Without Delay	100	BE.SGM2025030
	40					100	BE.SGM2040030
	63					100	BE.SGM2063030
	80					100	BE.SGM2080030
	100					100	BE.SGM2100030
	25	2	Fire Protection	300	Without Delay	100	BE.SGM2025300
	40					100	BE.SGM2040300
	63					100	BE.SGM2063300
	80					100	BE.SGM2080300
BEGM-4	25	4	Life Protection	30	Without Delay	50	BE.SGM4025030
	40					50	BE.SGM4040030
	63					50	BE.SGM4063030
	80					50	BE.SGM4080030
	100					50	BE.SGM4100030
	25	4	Fire Protection	300	Without Delay	50	BE.SGM4025300
	40					50	BE.SGM4040300
	63					50	BE.SGM4063300
	80					50	BE.SGM4080300
	100					50	BE.SGM4100300



10 kA Residual Current Circuit Breakers (A Type)

Type Code	Rated Current In (A)	No Of Poles	Protection	Rated Residual CurrentI _{fn} (mA)	Tripping Time (ms)	Pack/Qty	Order Code
BEFM-2	25	2	Life Protection	30	Without Delay	100	BE.SFM2025030
	40					100	BE.SFM2040030
	63					100	BE.SFM2063030
	80					100	BE.SFM2080030
	100					100	BE.SFM2100030
	25	2	Fire Protection	300	Without Delay	100	BE.SFM2025300
	40					100	BE.SFM2040300
	63					100	BE.SFM2063300
	80					100	BE.SFM2080300
BEFM-4	25	4	Life Protection	30	Without Delay	50	BE.SFM4025030
	40					50	BE.SFM4040030
	63					50	BE.SFM4063030
	80					50	BE.SFM4080030
	100					50	BE.SFM4100030
	25	4	Fire Protection	300	Without Delay	50	BE.SFM4025300
	40					50	BE.SFM4040300
	63					50	BE.SFM4063300
	80					50	BE.SFM4080300
	100					50	BE.SFM4100300



3 Poles Contactors

Coil Voltage:230 V AC



Type Code	Rated Power (kW) (400 V)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Aux. Contact	Minimum Order	Pack/Qty	Order Code
BECM-9	4	9	25	1NO+1NC	1	42	BE.SCM009230
BECM-12	5,5	12	25	1NO+1NC	1	42	BE.SCM012230
BECM-18	7,5	18	40	1NO+1NC	1	42	BE.SCM018230
BECM-22	11	22	40	1NO+1NC	1	42	BE.SCM022230
BECM-32	15	32	50	1NO+1NC	1	24	BE.SCM032230
BECM-40	18,5	40	60	1NO+1NC	1	24	BE.SCM040230
BECM-50	22	50	80	1NO+1NC	1	10	BE.SCM050230
BECM-65	30	65	100	1NO+1NC	1	10	BE.SCM065230
BECM-75	37	75	110	1NO+1NC	1	10	BE.SCM075230
BECM-85	45	85	135	1NO+1NC	1	10	BE.SCM085230
BECM-100	55	100	160	2NO+2NC	1	4	BE.SCM100230
BECM-125	60	120	160	2NO+2NC	1	4	BE.SCM125230
BECM-150	75	150	210	2NO+2NC	1	4	BE.SCM150230
BECM-180	90	180	230	2NO+2NC	1	1	BE.SCM180230
BECM-250	132	250	260	2NO+2NC	1	1	BE.SCM250230
BECM-330	200	330	400	2NO+2NC	1	1	BE.SCM330230
BECM-400	250	400	500	2NO+2NC	1	1	BE.SCM400230
BECM-630	400	630	1000	2NO+2NC	1	1	BE.SCM630230

3 Poles Contactors

Coil Voltage:

100-220VDC(CommonCoil)
/100-240 V AC

Type Code	Rated Power (kW) (400 V)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Aux. Contact	Minimum Order	Pack/Qty	Order Code
BECM-100	55	100	160	2NO+2NC	1	4	BE.SCM100ADC
BECM-125	60	120	160	2NO+2NC	1	4	BE.SCM125ADC
BECM-150	75	150	210	2NO+2NC	1	4	BE.SCM150ADC
BECM-180	90	180	230	2NO+2NC	1	4	BE.SCM180ADC
BECM-250	132	250	260	2NO+2NC	1	4	BE.SCM250ADC



Coil Voltage: 24V DC

3 Poles Contactors



Type Code	Rated Power (kW) (400 V)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Aux. Contact	Minimum Order/ Pcs	Pack/Qty	Order Code
BEDM-9	4	9	25	1NO+1NC	1	32	BE.SDM009024
BEDM-12	5,5	12	25	1NO+1NC	1	32	BE.SDM012024
BEDM-18	7,5	18	40	1NO+1NC	1	32	BE.SDM018024
BEDM-22	11	22	40	1NO+1NC	1	32	BE.SDM022024
BEDM-32	15	32	50	1NO+1NC	1	16	BE.SDM032024
BEDM-40	18,5	40	60	1NO+1NC	1	16	BE.SDM040024

Coil Voltage: 48V DC

3 Poles Contactors



Type Code	Rated Power (kW) (400 V da)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Aux. Contact	Minimum Order/ pcs	Pack/Qty	Order Code
BEDM-9	4	9	25	1NO+1NC	1	32	BE.SDM009048
BEDM-12	5,5	12	25	1NO+1NC	1	32	BE.SDM012048
BEDM-18	7,5	18	40	1NO+1NC	1	32	BE.SDM018048
BEDM-22	11	22	40	1NO+1NC	1	32	BE.SDM022048
BEDM-32	15	32	50	1NO+1NC	1	16	BE.SDM032048
BEDM-40	18,5	40	60	1NO+1NC	1	16	BE.SDM040048

Coil Voltage: 230V AC

4 Poles Contactors (4NO)



Type Code	Rated Power (kW) (400)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Minimum Order/ pcs	Pack/Qty	Order Code
BECF-9	4	9	25	1	42	BE.SCF009230
BECF-12	5,5	12	25	1	42	BE.SCF012230
BECF-18	7,5	18	40	1	42	BE.SCF018230
BECF-22	11	22	40	1	42	BE.SCF022230
BECF-32	15	32	50	1	34	BE.SCF032230
BECF-40	18,5	40	60	1	34	BE.SCF040230
BECF-50	22	50	80	1	10	BE.SCF050230
BECF-65	30	65	100	1	10	BE.SCF065230
BECF-75	37	75	110	1	10	BE.SCF075230
BECF-85	45	85	135	1	10	BE.SCF085230

Coil Voltage: 230V AC

4 Poles Contactors (2NO+2NC)



Type Code	Rated Power (kW) (400)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Minimum Order /Pcs	Pack/Qty	Order Code
BECH-9	4	9	25	1	42	BE.SCH009230
BECH-12	5,5	12	25	1	42	BE.SCH012230
BECH-18	7,5	18	40	1	42	BE.SCH018230
BECH-22	11	22	40	1	42	BE.SCH022230
BECH-32	15	32	50	1	34	BE.SCH032230
BECH-40	18,5	40	60	1	34	BE.SCH040230
BECH-50	22	50	80	1	10	BE.SCH050230
BECH-65	30	65	100	1	10	BE.SCH065230
BECH-75	37	75	110	1	10	BE.SCH075230
BECH-85	45	85	135	1	10	BE.SCH085230

Reversing Contactors

Coil: 230V AC



Type Code	Rated Power (kW) (400 V)	Rated Current AC-3 (A)	Rated Current AC-1 (A)	Aux. Contact	Min.Order /pcs	Pack/Qty	Order Code
BECR-9	4	9	25	2NO+2NC	1	10	BE.SCR009230
BECR-12	5,5	12	25	2NO+2NC	1	10	BE.SCR012230
BECR-18	7,5	18	40	2NO+2NC	1	10	BE.SCR018230
BECR-22	11	22	40	2NO+2NC	1	10	BE.SCR022230
BECR-32	15	32	50	2NO+2NC	1	10	BE.SCR032230
BECR-40	18,5	40	60	2NO+2NC	1	10	BE.SCR040230
BECR-50	22	50	80	2NO+2NC	1	4	BE.SCR050230
BECR-65	30	65	100	2NO+2NC	1	4	BE.SCR065230
BECR-75	37	75	110	2NO+2NC	1	4	BE.SCR075230
BECR-85	45	85	135	2NO+2NC	1	4	BE.SCR085230
BECR-100	55	100	160	2NO+2NC	1	2	BE.SCR100230
BECR-125	60	125	160	2NO+2NC	1	2	BE.SCR125230
BECR-150	75	150	210	2NO+2NC	1	2	BE.SCR150230
BECR-180	90	180	230	2NO+2NC	1	2	BE.SCR180230
BECR-250	132	250	260	2NO+2NC	1	2	BE.SCR250230
BECR-330	160	330	400	2NO+2NC	1	2	BE.SCR330230
BECR-400	200	400	500	2NO+2NC	1	2	BE.SCR400230
BECR-630	330	630	1000	2NO+2NC	1	2	BE.SCR630230

Spare Coils



Type Code	Type Of Contactors	Coil Voltage	Order Code
BEYB-1	SCM-9...SCM-40	24 V AC 50/60 Hz.	BE.SYB1-024AC
	SCM-9...SCM-40	42 V AC 50/60 Hz.	BE.SYB1-042AC
	SCM-9...SCM-40	48 V AC 50/60 Hz.	BE.SYB1-048AC
	SCM-9...SCM-40	110 V AC 50/60 Hz.	BE.SYB1-110AC
	SCM-9...SCM-40	220 V AC 50/60 Hz.	BE.YB1-220AC
	SCM-9...SCM-40	380 V AC 50/60 Hz.	BE.YB1-380AC
	SCM-9...SCM-40	415 V AC 50/60 Hz.	BE.YB1-415AC
BEYB-2	SCM-50...SCM-85	24 V AC 50/60 Hz.	BE.YB2-024AC
	SCM-50...SCM-85	42 V AC 50/60 Hz.	BE.YB2-042AC
	SCM-50...SCM-85	48 V AC 50/60 Hz.	BE.YB2-048AC
	SCM-50...SCM-85	110 V AC 50/60 Hz.	BE.YB2-110AC
	SCM-50...SCM-85	220 V AC 50/60 Hz.	BE.YB2-220AC
	SCM-50...SCM-85	380 V AC 50/60 Hz.	BE.YB2-380AC
	SCM-50...SCM-85	415 V AC 50/60 Hz.	BE.YB2-415AC
BEYB-3	SCM-100...SCM-150	220 V AC 50/60 Hz.	BE.YB3-220AC
	SCM-100...SCM-150	380 V AC 50/60 Hz.	BE.YB3-380AC
	SCM-100...SCM-150	100-240 V AC / 100-220 V DC	BE.YB3-0ACDC
BEYB-4	BE.SCM180-BE.	380 V AC 50/60 Hz.	BE.YB4-380AC
BEYB-5	BE.SCM330	380 V AC 50/60 Hz.	BE.YB5-380AC
BEYB-6	BE.SCM400	380 V AC 50/60 Hz.	BE.YB6-380AC
BEYB-7	BE.SCM630	380 V AC 50/60 Hz.	BE.YB7-380AC
BEYD-1	SDM-9...SDM-40	24 V DC	BE.YD1-024DC
	SDM-9...SDM-40	48 V DC	BE.YD1-048DC
	SDM-9...SDM-40	60 V DC	BE.YD1-060DC
	SDM-9...SDM-40	110 V DC	BE.YD1-110DC

Aux. Contact Blocks



Type Code	Type Of Contactors	Aux. Contact	Assembly	Order Code
BEAC-1	SCM-9...SCM-85	1NO+1NC	Left side	BE.SAC-1S11
BEAC-100	SCM-100...SCM-150	1NO+1NC	Left Side	BE.SAC-1B11
BEAC-2	SCM-9...SCM-85	1NO+1NC	Top	BE.SAC-2S11
	SCM-9...SCM-85	2NO	Top	BE.SAC-2S20
BEAC-4	SCM-9...SCM-85	2NO+2NC	Top	BE.SAC-4S22
	SCM-9...SCM-85	3NO+1NC	Top	BE.SAC-4S31
	SCM-9...SCM-85	1NO+3NC	Top	BE.SAC-4S13
	SCM-9...SCM-85	4NO	Top	BE.SAC-4S40
	SCM-9...SCM-85	4NC	Top	BE.SAC-4S04
BEAC-5	SCM-330...SCM-630	2NO+2NC	Top	BE.SAC-5S22

Termal Overload Relays

Type Code	Rated Current In (A)	Thermal Setting (A)	Type Of Contactors	Minimum Order/ pcs	Pack/Qty	Order Code
BETRP-22	0.16	0.1-0.16	SCM-9...SCM-22	1	54	BE.STRP22-016
	0.25	0.16-0.25	SCM-9...SCM-22	1	54	BE.STRP22-025
	0.40	0.25-0.40	SCM-9...SCM-22	1	54	BE.STRP22-040
	0.63	0.40-0.63	SCM-9...SCM-22	1	54	BE.STRP22-063
	1	0.63-1	SCM-9...SCM-22	1	54	BE.STRP22-1
	1.6	1-1.6	SCM-9...SCM-22	1	54	BE.STRP22-1.6
	2.5	1.6-2.5	SCM-9...SCM-22	1	54	BE.STRP22-2.5
	4	2.5-4	SCM-9...SCM-22	1	54	BE.STRP22-4
	6	4-6	SCM-9...SCM-22	1	54	BE.STRP22-6
	8	5-8	SCM-9...SCM-22	1	54	BE.STRP22-8
	10	7-10	SCM-9...SCM-22	1	54	BE.STRP22-10
	13	9-13	SCM-9...SCM-22	1	54	BE.STRP22-13
BETRP-40	18	12-18	SCM-9...SCM-22	1	54	BE.STRP22-18
	22	16-22	SCM-9...SCM-22	1	54	BE.STRP22-22
	26	18-26	SCM-32, SCM-40	1	36	BE.STRP40-26
	36	24-36	SCM-32, SCM-40	1	36	BE.STRP40-36
BETRP-85	40	28-40	SCM-32, SCM-40	1	36	BE.STRP40-40
	50	34-50	SCM-50...SCM-85	1	24	BE.STRP85-50
	65	45-65	SCM-50...SCM-85	1	24	BE.STRP85-65
	75	54-75	SCM-50...SCM-85	1	24	BE.STRP85-75
BETRP-100	85	63-85	SCM-50...SCM-85	1	24	BE.STRP85-85
	100	65-100	SCM-100...SCM-125	1	12	BE.STRP100-100
BETRP-150	125	85-125	SCM-100...SCM-125	1	12	BE.STRP100-125
	150	100-150	SCM-150	1	12	BE.STRP150-150
BETRP-220	180	120-180	SCM-250	1	12	BE.STRP220-180
	240	160-240	SCM-251	1	12	BE.STRP220-240



Din Rail Adaptor For Thermal Overload Relays

Type Code	Type Of Thermal Overload Relays	Order Code
BEDR-22	STRP-22	BE.SDR-22
BEDR-40	STRP-40	BE.SDR-40
BEDR-85	STRP-85	BE.SDR-85



3 Poles Mini Contactors

Coil Voltage: 230 V DC



Type Code	Rated Power (kW)	Rated Current AC-3 (A)	Rated Ther. Current Ith (A)	Aux. Contact	Min. Order / Pcs	Pack/Qty	Order Code
BECM-6M	2.2	6	20	1NO	1	80	BE.SCM0610230
	2.2	6	20	1NC	1	80	BE.SCM0601230
BECM-9M	4	9	20	1NO	1	80	BE.SCM0910230
	4	9	20	1NC	1	80	BE.SCM0901230
BECM-12M	5.5	12	20	1NO	1	80	BE.SCM1210230
	5.5	12	20	1NC	1	80	BE.SCM1201230
BECM-16M	7.5	16	20	1NO	1	80	BE.SCM1610230
	7.5	16	20	1NC	1	80	BE.SCM1601230

3 Poles Mini Contactors

Coil Voltage: 24 V DC



Type Code	Rated Power (kW)	Rated Current AC-3 (A)	Rated Ther. Current Ith (A)	Aux. Contact	Min. Order / pcs	Pack/Qty	Order Code
BEDM-6M	2.2	6	20	1NO	1	80	BE.SDM0610024
	2.2	6	20	1NC	1	80	BE.SDM0601024
BEDM-9M	4	6	20	1NO	1	80	BE.SDM0910024
	4	9	20	1NC	1	80	BE.SDM0901024
BEDM-12M	5.5	12	20	1NO	1	80	BE.SDM1210024
	5.5	12	20	1NC	1	80	BE.SDM1201024
BEDM-16M	7.5	16	20	1NO	1	80	BE.SCM1610024
	7.5	16	20	1NC	1	80	BE.SCM1601024

Aux. Contact Blocks for Mini Contactors



Type Code	Aux.Contact	Assembly	Order Code
BEAC-4M	2NO+2NC	Top	BE.SAC-4M22
	3NO+1NC	Top	BE.SAC-4M31
	4NO	Top	BE.SAC-4M40
	4NC	Top	BE.SAC-4M04

Spare Coils For Mini Contactors



Type Code	Coil Voltage	Order Code
BEYM-1	24 V AC 50/60 Hz.	BE.SYM1-024AC
	42 V AC 50/60 Hz.	BE.SYM1-042AC
	48 V AC 50/60 Hz.	BE.SYM1-048AC
	110 V AC 50/60 Hz.	BE.SYM1-110AC
	230 V AC 50/60 Hz.	BE.SYM1-230AC
BEMD-1	24 V DC	BE.SMD1-024DC
	48 V DC	BE.SMD1-048DC
	110 V DC	BE.SMD1-110DC

Thermal Overload Relays For Mini Contactors

Type Code	Rated Current In (A)	Thermal Setting (A)	Min. Order/Pcs	Pack/Qty	Order Code
BETRM-12	1.6	1-1.6	1	80	BE.STRM12-1.6
	2.5	1.6-2.5	1	80	BE.STRM12-2.5
	4	2.5-4	1	80	BE.STRM12-4
	6	4-6	1	80	BE.STRM12-6
	9	6-9	1	80	BE.STRM12-9
	13	9-13	1	80	BE.STRM12-13
	16	12-16	1	80	BE.STRM12-16



Din Rail Adaptor For Mini Ther. Overload Relays

Type Code	Type Of Ther. Overload relays	Order Code
BEDR-12	STRM-12	BE.SDR-12

BETA Contactors in AC-3 Comparision with other Brands

3 Phases Motor (380 V)		BETA Elektrik	Siemens	Telemecanique	ABB	Legrand	LG	General Electric	K. Moeller
kW	Hp								
4	5	BECM-9	3TF-40	LC1-D910	A9	CTX1 9A	GMC-9	CL00	DILM9
5.5	7.5	BECM-12	3TF-41	LC1-DI210	A12	CTX1 12A	GMC-12	CL01	DILM12
7.5	10	BECM-18	3TF-42	LC1-D1810	A16	CTX1 16A	GMC-18	CL02	DILM15
11	15	BECM-22	3TF-43	LC1-D2510	A26	CTX1 25A	GMC-22	CL025	DILM25
15	20	BECM-32	3TF-44	LC1-D3210	A30	CTX1 32A	GMC-32	CL04	DILM32
18.5	25	BECM-40	3TF-45	LC1-D4011	A40	CTX1 40A	GMC-40	CL45	DILM40
22	30	BECM-50	3TF-46	LC1-D5011	A50	CTX1 50A	GMC-50	CL06	DILM50
30	40	BECM-65	3TF-47	LC1-D6511	A63	CTX1 65A	GMC-65	CL07	DILM65
37	50	BECM-75	3TF-48	LC1-D8011	A75	CTX1 80A	GMC-75	CL08	DILM80
45	60	BECM-85	3TF-49	LC1-D9511	A95	CTX1 95A	GMC-85	CL09	DILM95
55	80	BECM-100	3TF-50	LC1-F115	A110	CTX1 110A	GMC-100	CL10	DILM115
75	100	BECM-150	3TF-51	LC1-F150	EH145	CTX2 150A	GMC-150	CK75	DILM150

Utilization Categories of Contactors

AC Supply			Making and Breaking Conditions(normal operation)						MakingandBreakingConditions(occasionaloperation)					
TypicalApplications		Utilization Category	Making			Breaking			Making			Breaking		
			I/le	U/U e	cos	Ic/le	Ur/Ue	cos	I/le	U/U e	cos	Ic/le	Ur/Ue	cos
Motors	Slip ring motors starting breaking	AC-1	le	Ve	0.95I	eV	e0	.951	,5 le	1.05 ve	0.61	.5 le	1.05 Ve	0.6
		AC-2	2.5	Ve	0.65	2.5 le	Ve	.065	4 le	1.05 ve	0.65	4 le	1.05 Ve	0.65
	Squirrel cage motors starting breaking while motor running	AC-3 les 17 A	6 le	Ve	0.65	le	0.17 Ve0	.651	0le	1.05 ve	0.45	8 le	1.05 Ve	0.45
		17< les 100A	6 le	Ve	0.35	le	0.17 Ve0	.351	0le	1.05 ve	0.45	8 le	1.05 Ve	0.45
		le>100A	6 le	Ve	0.35	le	0.17 Ve0	.351	0le	1.05 ve	0.35	10 le	1.05 Ve	0.45
	Squirrel cage or slip ring motor starting plug-ging inching	AC-4 les 17 A	6 le	Ve	0.65	6 le	Ve	0.65	12 le	1.05 ve	0.45	10 le	1.05 Ve	0.35
		17< les100A	6 le	Ve	0.35	6 le	Ve	0.35	12 le	1.05 Ve	0.35	10 le	1.05 Ve	0.35
		le>100A	6 le	Ve	0.35	6le	Ve	0.35	12le	1.05 Ve	0.35	10 le	1.05 ve	0.35

Contactor Selection According to Utilization Categories

Type Code	Rated Power AC-3 (kW) (400-415 V)	Rated Current AC-3 (A) 55 C	Rated Current AC-1 (A) 40 C	Rated Current AC-1 (A) 55 C	Rated Current AC-1 (A)	Rated Current AC-5a (A)	Mechanical Life (ope.)	Electrical Life (ope) AC-3 Ue 440 V z
BECM-9	4	9	25	21	45	9	20.000.000	2.000.000
BECM-12	5,5	12	25	21	45	12	20.000.000	2.000.000
BECM-18	7,5	18	40	34	75	15	20.000.000	2.000.000
BECM-22	11	22	40	34	75	18	20.000.000	2.000.000
BECM-32	15	32	50	42	90	25	20.000.000	2.000.000
BECM-40	18,5	40	60	50	100	28	20.000.000	1.500.000
BECM-50	22	50	80	70	150	38	15.000.000	1.500.000
BECM-65	30	65	100	85	190	43	15.000.000	1.500.000
BECM-75	37	75	110	95	210	48	15.000.000	1.000.000
BECM-85	45	85	135	115	250	60	15.000.000	1.000.000
BECM-100	55	100	160	135	300	70	10.000.000	500.000
BECM-125	60	120	160	135	300	90	10.000.000	500.000
BECM-150	75	150	210	180	400	100	10.000.000	500.000
BECM-180	90	180	230	230	500		5.000.000	500.000
BECM-250	132	250	260	260	550		5.000.000	500.000
BECM-330	200	330	400	400	900		5.000.000	500.000
BECM-400	250	400	500	500	1100		3.000.000	300.000
BECM-630	400	630	1000	1000	2200		3.000.000	300.000



Utilization Categories According to IEC/ EN 60947-4-1

Category Of Use	Typical Use
AC-1	Non-inductive or slightly inductive load, resistance furnace Includes all appliances supplied by AC current with power factor(cos.) 0,95. Examples of use: resistance furnace, industrial loads
AC-2	Motor with slip-ring armature,switching off
AC-3	Motor with short-circuit armature,switching when in operation This category applies to switching off motors with short-circuit armature while in operation while switching, contactor switches current which is 5 up to 7 times rated current of motor.
AC-4	Electro-motors with short circuit armature: start up, braking by backset, change over
AC-5a	Switching of electrical gas-filled lights, fluorescent lights
AC-5b	El.bulb switching Enables low contact loading due to resistance of cold fiber is many times smaller than one hot fiber
AC-6a	Switching of transformers
AC-6b	Switching of capacitors
AC-7a	Switching low inductive loads of home appliances and similar applications
AC-7b	Load of motors for home appliances
AC-8a	Switching of hermetically sealed motors of cooling compressors with manual reset switches against overload Hermetically sealed cooling compressors have to be placed in one box without external shaft or shaft padding and motor must operate with cooling liquid
AC-8b	Switching of hermetically sealed motors of cooling compressors with manual reset switches against overload Hermetically sealed cooling compressors have to be placed in one box without external shaft or shaft padding and motor must operate with cooling liquid
AC-12	Switching of semiconductor loads with separation transformers
AC-13	Switching of semiconductor loads with separation transformers
AC-14	Switching of low electro-magnetic loads (max.72 VA)
AC-15	Management of alternating electro-magnetic loads This category applies to switching inductive loads with input of closed electro magnetic circuit higher than 72VA Use:Switching coils of contactors
AC-20	Connection and disconnecting in unloaded states
AC-21	Switching resistive loads,including low loading
AC-22	Switching of mixed resistive and inductive loads,including low overloading
AC-23	Switching of motor loads or other high inductive loads
AC-53a	Switching of motor with short-circuit armature with semiconductor contactors DC current,t=L/R(s) Note:Category AC 15 replaces formerly used category AC 11
DC-1	Non-inductive or low inductive load,resistive furnaces
DC-3	Shunt motors:start-up,braking by backset,reversion,resistive braking
DC-5	Series motors:start-up,braking by backset,reversion,resistive braking
DC-6	Non-inductive or low inductive loads,resistive furnaces-el.bulbs
DC-12	Management of resistive loads and fixed loads with insulation by opto-electric element
DC-13	Switching of electromagnetics
DC-14	Switching of electromagnetic loads in circuits with limiting resistor
DC-20a(b)	Switching and breaking without load(a:frequent switching,b:occasional switching)
DC-21a(b)	Switching ohmic loads including limiting overloading (a:frequent switching,b:occasional switching)
DC-22a(b)	
DC-23	Switching of highly inductive loads (e.g.series motors)
DC-5	Seri motorların durdurulması,ters yönde çalıştırılması,adımlı çalıştırma; DC motorların dinamik frenlenmesi

Motor Protection Switches



Type Code	Rated Power AC3 400V (kW)	Thermal Settings	Short Circuit Breaking Cap. Icu (kA) 400 V	Min.Order /Pcs	Pack/Qty	Order Code
BEMK-25	0,02	0.1-0.16	100	1	48	BE.SMK25-0.16
	0,06	0.16-0.25	100	1	48	BE.SMK25-0.25
	0,09	0.25-0.4	100	1	48	BE.SMK25-0.4
	0,12	0.4-0.63	100	1	48	BE.SMK25-0.63
	0,25	0.63-1	100	1	48	BE.SMK25-1
	0,37	1-1,6	100	1	48	BE.SMK25-1.6
	0,75	1.6-2.5	100	1	48	BE.SMK25-2.5
	1,5	2,5-4	100	1	48	BE.SMK25-4
	2,2	4-6,3	100	1	48	BE.SMK25-6.3
	4	6-10	100	1	48	BE.SMK25-10
	5,5	9-14	15	1	48	BE.SMK25-14
	7,5	13-18	15	1	48	BE.SMK25-18
	9	17-23	15	1	48	BE.SMK25-23
	11	20-25	15	1	48	BE.SMK25-25

Accessories For Motor Protection Switches



Type Code	Description	Order Code
BEMK25-F11	1NO+1NC Aux. Contact (Front Mounting)	BE.SMK25-F11
BEMK25-F20	2NO Aux. Contact (Front Mounting)	BE.SMK25-F20
BEMK25-L20	2NO Aux. Contact (Side Mounting)	BE.SMK25-L20
BEMK25-L11	1NO+1NC Aux. Contact (Side Mounting)	BE.SMK25-L11
BEMK25-DG	380 V Under Voltage Release	BE.SMK25-DG
BEMK25-AB	230 V Shunt Trip Release	BE.SMK25-AB
BEMK25-K	Protection Box	BE.SMK25-K
BEMK25-A	Contactor Combination Block (SCM9-40)	BE.SMK25-A



0-1 On-Off Switches

Type Code	No Of Poles	Instantaneous Current (Ith) A	Order Code
BEPA1	1	10	BE.SPA1-10
	1	16	BE.SPA1-16
	1	20	BE.SPA1-20
	1	25	BE.SPA1-25
	1	32	BE.SPA1-32
	1	63	BE.SPA1-63
BEPA3	3	10	BE.SPA3-10
	3	16	BE.SPA3-16
	3	20	BE.SPA3-20
	3	25	BE.SPA3-25
	3	32	BE.SPA3-32
	3	63	BE.SPA3-63



Instrument Selector Switches

Type Code	No Of Poles	Instantaneous Current (Ith) A	Order Code
BEPM-A	4 steps	20	BE.SPM-A
BEPM-V	7 steps	20	BE.SPM-V



Direct Online Starters

Type Code	Rated Motor Power (kW) 380 V	Setting Adj. (A)	Coil Voltage (V) AC	Pack/Qty	Order Code
BEMS009230	0.37	1-1.6	230	1	BE.SMS090037
	0.75	1.6-2.5	230	1	BE.SMS090075
	1.5	2.5-4	230	1	BE.SMS090115
	2.2	4-6	230	1	BE.SMS090220
	3	5-8	230	1	BE.SMS090300
	4	7-10	230	1	BE.SMS090400
BEMS012230	5.5	9-13	230	1	BE.SMS0120550
BEMS018230	7.5	12-18	230	1	BE.SMS0180750
BEMS022230	11	16-22	230	1	BE.SMS0221110
BEMS032230	15	24-36	230	1	BE.SMS0321150
BEMS040230	18.5	28-40	230	1	BE.SMS0401185
BEMS050230	22	34-50	230	1	BE.SMS0501220
BEMS065230	30	45-65	230	1	BE.SMS0651300
BEMS075230	37	54-75	230	1	BE.SMS0751370
BEMS085230	45	63-85	230	1	BE.SMS0851450



LV Current Transformers

cl: 0.5



BE25BN



BE20



BE30



BE40



BE60



BE80



BE100

Type Code	Primary Current (A)	Burden (VA)	Class (cl)	Busbar Dimension (mm)	Min.Order /pcs	Pack/Qty	Order Code
BE25B	20	10	0,5	with bus bar	3	24	BE.SS2500200510
	25	10	0,5	with bus bar	3	24	BE.SS2500250510
	30	10	0,5	with bus bar	3	24	BE.SS2500300510
	40	10	0,5	with bus bar	3	24	BE.SS2500400510
	50	10	0,5	with bus bar	3	24	BE.SS2500500510
	60	10	0,5	with bus bar	3	24	BE.SS2500600510
	75	10	0,5	with bus bar	3	24	BE.SS2500750510
	100	10	0,5	with bus bar	3	24	BE.SS2501000510
	125	10	0,5	with bus bar	3	24	BE.SS2501250510
	150	10	0,5	with bus bar	3	24	BE.SS2501500510
BE20	100	5	0,5	20X10	3	30	BE.SS2001000505
	125	5	0,5	20X10	3	30	BE.SS2001250505
	150	10	0,5	20X10	3	30	BE.SS2001500510
BE30	150	5	0,5	30 X 10	3	30	BE.SS3001500505
	150	10	0,5	30 X 10	3	30	BE.SS3001500510
	200	10	0,5	30 X 10	3	30	BE.SS3002000510
	250	10	0,5	30 X 10	3	42	BE.SS3002500510
	300	10	0,5	30 X 10	3	42	BE.SS3003000510
	400	10	0,5	30 X 10	3	42	BE.SS3004000510
BE40	300	10	0,5	40 X 10	3	42	BE.SS4003000510
	400	10	0,5	40 X 10	3	42	BE.SS4004000510
	500	10	0,5	40 X 10	3	42	BE.SS4005000510
	600	10	0,5	40 X 10	3	42	BE.SS4006000510
BE50	500	10	0,5	50 X 10	3	42	BE.SS5005000510
	600	10	0,5	50 X 10	3	42	BE.SS5006000510
	750	10	0,5	50 X 10	3	42	BE.SS5007500510
	800	15	0,5	50 X 10	3	42	BE.SS5008000515
BE60	1000	15	0,5	50 X 10	3	42	BE.SS5001000515
	750	15	0,5	60 X 10	3	36	BE.SS6007500515
	800	15	0,5	60 X 10	3	36	BE.SS6008000515
BE80	1000	15	0,5	60 X 10	3	36	BE.SS6001000515
	750	10	0,5	80 X 10	3	18	BE.SS8007500510
	800	10	0,5	80 X 10	3	18	BE.SS8008000510
BE100	1000	15	0,5	80 X 10	3	18	BE.SS8010000515
	1200	15	0,5	80 X 10	3	18	BE.SS8012000515
	1250	15	0,5	80 X 10	3	18	BE.SS8012500515
	1500	15	0,5	80 X 10	3	18	BE.SS8015000515
BE100	1200	15	0,5	100 X 10	3	18	BE.SS1001200515
	1250	15	0,5	100 X 10	3	18	BE.SS1001250515
	1500	15	0,5	100 X 10	3	18	BE.SS1001500515
	1600	15	0,5	100 X 10	3	18	BE.SS1001600515
	2000	15	0,5	100 X 10	3	18	BE.SS1002000515
	2000	30	0,5	100 X 10	3	18	BE.SS1002000530
	2500	15	0,5	100 X 10	3	18	BE.SS1002500515
BE100	2500	30	0,5	100 X 10	3	18	BE.SS1002500530
	3000	30	0,5	100 X 10	3	18	BE.SS1003000530

cl: 0.5

LV Current Transformers

Type Code	Primary Current (A)	Burden (VA)	Class (cl)	Busbar Dimension (mm)	Min.Order /pcs	Pack/Qty	Order Code
BE125	2000	15	0,5	3x (125 X 10)	3	12	BE.SS1252000515
	2500	15	0,5	3x (125 X 10)	3	12	BE.SS1252500515
	3000	30	0,5	3x (125 X 10)	3	12	BE.SS1253000530
	4000	30	0,5	3x (125 X 10)	3	12	BE.SS1254000530
	5000	30	0,5	3x (125 X 10)	3	12	BE.SS1255000530
BE60D (Narrow Type)	600	5	0,5	60X10	3	36	BE.SD6006000505
	750	7,5	0,5	60X10	3	36	BE.SD6007500507
	1000	10	0,5	60X10	3	36	BE.SD6010000510
	1200	15	0,5	60X10	3	36	BE.SD6012000515
	1250	15	0,5	60X10	3	36	BE.SD6012500515
	1600	15	0,5	60X10	3	36	BE.SD6016000515
BE100D (Narrow Type)	600	5	0,5	4x(100x10)	3	12	BE.SD1006000505
	800	7,5	0,5	4x(100x10)	3	12	BE.SD1008000507
	1000	10	0,5	4x(100x10)	3	12	BE.SD1001000510
	1200	15	0,5	4x(100x10)	3	12	BE.SD1001200515
	1250	15	0,5	4x(100x10)	3	12	BE.SD1001250515
	1600	15	0,5	4x(100x10)	3	12	BE.SD1001600515
	2000	15	0,5	4x(100x10)	3	12	BE.SD1002000515
	2500	15	0,5	4x(100x10)	3	12	BE.SD1002500515
	3000	30	0,5	4x(100x10)	3	12	BE.SD1003000530
	4000	30	0,5	4x(100x10)	3	12	BE.SD1004000530



BE125



BE60D



BE100D

cl: 1

LV Current Transformers

Type Code	Primary Current (A)	Burden (VA)	Class (cl)	Busbar Dimension (mm)	Min.Order /pcs	Pack/Qty	Order Code
BE30	100	5	1	30x10	3	30	BE.SS3001001005
	150	5	1	30x10	3	30	BE.SS3001501005
	200	5	1	30x10	3	30	BE.SS3002001005
	250	5	1	30x10	3	42	BE.SS3002501005
	300	5	1	30x10	3	42	BE.SS3003001005
	400	5	1	30x10	3	42	BE.SS3004001005
BE40	400	5	1	40x10	3	42	BE.SS4004001005
	500	5	1	40x10	3	42	BE.SS4005001005
	600	5	1	40x10	3	42	BE.SS4006001005



BE30



BE40

cl: 3

LV Current Transformers

Type Code	Primary Current (A)	Burden (VA)	Class (cl)	Busbar Dimension (mm)	Min.Order /pcs	Pack/Qty	Order Code
BE30	50	2,5	3	30x10	3	30	BE.SS300503002
	60	2,5	3	30x10	3	30	BE.SS300603002
	75	2,5	3	30x10	3	30	BE.SS300753002



Mini Current Transformers (Assembly To 35 mm Din Rail Type)



Type Code	Primary Current (A)	Burden (VA)	Class (cl)	Busbar Dimension (mm)	Min.Order /pcs	Pack/Qty	Order Code
BE20M	75	2,5	1	20x10	3	51	BE.SM2000751002
	100	2,5	1	20x10	3	51	BE.SM2001001002
	125	2,5	1	20x10	3	51	BE.SM2001251002
	150	2,5	0,5	20x10	3	51	BE.SM2001500502
	200	3,75	0,5	20x10	3	51	BE.SM2002000503
	150	5	1	20x10	3	51	BE.SM2001501005
	200	5	1	20x10	3	51	BE.SM2002001005
BE30M	150	2,5	0,5	30X10	3	51	BE.SM3001500502
	200	2,5	0,5	30X10	3	51	BE.SM3002000502
	200	5	0,5	30X10	3	51	BE.SM3002000505
	250	10	0,5	30X10	3	51	BE.SM3002500510
	300	10	0,5	30X10	3	51	BE.SM3003000510
	400	10	0,5	30X10	3	51	BE.SM3004000510
	500	10	0,5	30X10	3	51	BE.SM3005000510
	600	10	0,5	30X10	3	51	BE.SM3006000510
	150	5	1	30X10	3	51	BE.SM3001501005
	200	5	1	30X10	3	51	BE.SM3002001005
	250	5	1	30X10	3	51	BE.SM3002501005
	300	5	1	30X10	3	51	BE.SM3003001005
	400	5	1	30X10	3	51	BE.SM3004001005
	500	5	1	30X10	3	51	BE.SM3005001005
	600	5	1	30X10	3	51	BE.SM3006001005

Main Dimensions

Type Code	Cable dig. (mm)	Windows dig. (mm)	Busbar dimension (mm)	Cable Section (mm²)	Primary Current (A)	Rated Power (VA)	Outer Dimensions wxhxd (mm)
BE25BN	—	—	—	—	20.....150	2.5...30	80x100x40
BE20	20	21x11	20x10	4.....95	60.....200	2.5.....15	80x100x(40-50-60)
BE20M	20	21x11	20x10	4.....95	75.....200	1.....10	62x80x(30-45)
BE30	24	31x11	30x10	4.....150	100.....600	1.....30	80x100x(40-50-60)
BE30M	24	31x11	30x10	4.....150	150....600	1.....15	62x80x(30-45)
BE40	31	41x11	40x10	4.....240	300.....600	2.5.....30	80x100x(40-50-60)
BE50	38	51x11	50x10	4.....300	500.....1000	2.5.....30	80x100x(40-50-60)
BE60	46	62x31	60x10	4.....300	500.....1000	5.....30	107x132x45
BE60D	—	60x72	60x10	—	600.....1600	5.....15	82x134x60
BE80	67	81x31	2x(80x10)	4.....300	500.....1500	5.....30	145x165x55
BE100	—	102x11	100x10	—	500....2500	5.....30	145x165x55
BE100D	—	101x72	4x(100x10)	—	600.....5000	10.....30	128x193x61
BE125	126	126x11	3x(125x10)	4...300	2000.....5000	15.....60	190x220x55



Split Core Current Transformers



Type Code	Primary Current (A)	Burden (VA)	Class (cl)	Busbar Dimension (mm)	Min. Order/ Pcs	Pack/Qty	Order Code
BE60A	400	3,75	1	60x30	3	18	BE.SA6004001003
	500	5	1	60x30	3	18	BE.SA6005000505
	600	5	0,5	60x30	3	18	BE.SA6006000505
	800	7,5	0,5	60x30	3	18	BE.SA6008000510
	1000	10	0,5	60x30	3	18	BE.SA6010000515

Lv Current Transformers

Accuracy Class

Class	Current deviation (±%) at % In						Phase angle deviation (±%) at % In					
	1	52	05	01	00	120	15		20	100	120	
0.25	0.75	0.35	0,2-		0.20	,2	0,90	,450	,3	0,30	,3	
0,2-		0,75	0,345	-0	,2	0,2-		0,90	,450	,3	0,3	
0,55	1,50	,750	,5	-0	,5	0,52	,7	1,35	0,90	,9	0,9	
0,5-		1,50	,75-		0,50	,5	-2	,7	1350	,9	0,9	
1-		31	,5	-1		1-		5,42	,7	1,81	,9	
3-		-		3-		3-		-		-		

Connection Wire Consumption In[Va]

q=wire crossection(mm)	(Pwire) [VA]							
	For Secondary Current							
	L=distance from CT.tom measuring point							
	1m	2m	4m	6m	8m	10m1	5m	20m
2x0.51	.837	3.67	7,35	11.02	—	—	—	—
2x0.75	1.235	2.47	4.947	.419	.88	—	—	—
2x1	0.918	1.84	3.67	5.517	,349	.18	—	—
2x1,5	0.6131	.232	.453	.684	.906	.139	.20	—
2x2.50	.368	0.741	.47	2.21	2.943	.685	.527	,36
2x4.50	.233	0.470	.931	.401	.862	.333	.504	.66
2x60	1.149	0.30	0.60	0.89	1.19	1.49	2.23	2.98

Power Consumption For Some Instruments

	Typical Consumption
Moving iron instruments	0,3...15 VA
Moving coil instruments0	,5 VA
Anologe waltmeters	0,2 ... 2,5 VA
Maximum Demand Indicators	2,5 ...5,0 VA
Digitals Instruments0	,5 ...1,0 VA
Energy meters1	,0 ...1,5 VA
Recording Insrements2	,0 ... 5-0 VA

Necessary Information For CT Order

- Ratio (20/5 A ...5000/5 A)
- Window Dimensions (20-30-40-50-60-80-100-125 mm)
- Secondary Burden (1,5-2,5-3,75-5-10-15-30 VA)
- Accuracy Class (0.1-0.2-0.5-1-3)

Digital Panelmeters

Type Code	Specifications	Dimension(mm)	Min.Order/ pcs	Pack/Qty	Order Code
BED 72A	1-5000/5A (with CT) Ammeter	72x72	1	72	BE.SD72A-5000
BED 96A	1-5000/5A (with CT) Ammeter	96x96	1	72	BE.SD96A-5000
BED 72V	0-600 V AC Voltmeter	72x72	1	72	BE.SD72V-0600
BED 96V	0-600 V AC Voltmeter	96x96	1	72	BE.SD96V-0600



Analog Ammeter

Type Code	Specifications	Dimension(mm)	Min.Order/ pcs	Pack/Qty	Order Code
BEA 72A	30A direct Ammeter	72x72	1	48	BE.SA72A-D030
	50A direct Ammeter	72x72	1	48	BE.SA72A-D050
	100A direct Ammeter	72x72	1	48	BE.SA72A-D100
	X/5Aammeter(with CT using)	72x72	1	48	* BE.SA72A-X
BEA 96A	30A direct Ammeter	96x96	1	27	BE.SA96A-D030
	50A direct Ammeter	96x96	1	27	BE.SA96A-D050
	100A direct Ammeter	96x96	1	27	BE.SA96A-D100
	X/5Aammeter(with CT using)	96x96	1	27	*BE.SA96A-X



Analog Voltmeter

Type Code	Specifications	Dimension(mm)	Min.Order/Pcs	Pack/Qty	Order Code
BEA 72V	0-250 V AC Voltmeter	72x72	1	48	BE.SA72V-0250
	0-500 V AC Voltmeter	72x72	1	48	BE.SA72V-0500
BEA 96V	0-250 V AC Voltmeter	96x96	1	27	BE.SA96V-0250
	0-500 V AC Voltmeter	96x96	1	27	BE.SA96V-0500



Analog Demand Ammeter

Type Code	Specification	Dimension(mm)	Min.Order/ Pcs	Pack/Qty	Order Code
BEA 72D	250/5 A (15 min) demand ammeter	72x72	1	48	BE.SA72D-0250
	400/5 A (15 min.) demand ammeter	72x72	1	48	BE.SA72D-0400
	600/5 A (15 min.) demand ammeter	72x72	1	48	BE.SA72D-0600
	1000/5 A (15 min.) demand ammeter	72x72	1	48	BE.SA72D-1000
BEA 96D	250/5 A (15 min) demand ammeter	96x96	1	27	BE.SA96D-0250
	400/5 A (15 min.) demand ammeter	96x96	1	27	BE.SA96D-0400
	600/5 A (15 min.) demand ammeter	96x96	1	27	BE.SA96D-0600
	1000/5 A (15 min.) demand ammeter	96x96	1	27	BE.SA96D-1000



LV Power Capacitors

(Dry, Clindrical ,self-healing,overpressure protection)

Type Code	Power (kVAr)	No of phases	Voltage (V)	DimensionsDxh (mm)	Min. Order / Pcs	Pack/Qty	Order Code
BE1K230	0.25	Single Phase	230	76x105	3	3	BE.1SK230-0.25
	0.5		230	76x105	3	3	BE.1SK230-0.5
	1		230	76x105	3	3	BE.1SK230-1
	1.5		230	76x105	3	3	BE.1SK230-1.5
	2.5		230	76x120	3	3	BE.1SK230-2.5
BE3K400	1,0	3 Phases	400	65x175	3	10	BE.3SK400-1
	1,5		400	65x175	3	10	BE.3SK400-1.5
	2,5		400	65x175	3	10	BE.3SK400-2.5
	5,0		400	76x175	3	7	BE.3SK400-5
	7,5		400	76x240	3	7	BE.3SK400-7.5
	10,00		400	76x240	3	7	BE.3SK400-10
	12,5		400	86x240	3	5	BE.3SK400-12.5
	15,0		400	96x240	3	4	BE.3SK400-15
	20,0		400	106x240	3	3	BE.3SK400-20
	25,0		400	116x240	3	3	BE.3SK400-25
	30,0		400	116X285	3	3	BE.3SK400-30
	40		400	116X325	3	2	BE.3SK400-40
	50		400	137X400	3	2	BE.3SK400-50
BE3K440	1,0	3 Phases	440	65x175	3	10	BE.3SK440-1
	1,5		440	65x175	3	10	BE.3SK440-1.5
	2,5		440	65x175	3	10	BE.3SK440-2.5
	5,0		440	65x175	3	7	BE.3SK440-5
	7,5		440	65x240	3	7	BE.3SK440-7.5
	10,00		440	76x240	3	7	BE.3SK440-10
	12,5		440	76x240	3	5	BE.3SK440-12.5
	15,0		440	86x240	3	4	BE.3SK440-15
	20,0		440	96x240	3	3	BE.3SK440-20
	25,0		440	106x240	3	3	BE.3SK440-25
	30,0		440	116X240	3	3	BE.3SK440-30
	40		440	116X325	3	2	BE.3SK440-40
	50		440	137X400	3	2	BE.3SK440-50

Coil Voltage: 230V AC

Contactor For Capacitor Switching



Type Code	Rated Capacitor Power220/240V	Rated Capacitor Power380/440V	Aux. Contact	MinOrder/ Pcs	Pack/Qty	Order Code
BECK-18	5	5	1NO+1NC	1	32	BE.SCK018
BECK-22	6	10	1NO+1NC	1	32	BE.SCK022
BECK-32	8	15	1NO+1NC	1	32	BE.SCK032
BECK-40	12	20	1NO+1NC	1	32	BE.SCK040
BECK-50	15	25	1NO+1NC	1	8	BE.SCK050
BECK-65	20	33,3	1NO+1NC	1	8	BE.SCK065
BECK-75	22	40	1NO+1NC	1	8	BE.SCK075
BECK-85	33,3	50	1NO+1NC	1	8	BE.SCK085

cl:1 Mini Current Transformers (Assembly to 35 mmDin Rail)

Type Code	Primary Current (A)	Burden (VA)	Accuracy Class (cl)	Busbar (mm)	Minimum order	Qty in one box	Order Code
BE20M	75	2,5	1	20x10	3	51	BE.SM2000751002
	100	2,5	1	20x10	3	51	BE.SM2001001002
	125	2,5	1	20x10	3	51	BE.SM2001251002
	150	5	1	20x10	3	51	BE.SM2001501005
	200	5	1	20x10	3	51	BE.SM2002001005
BE30M	150	5	1	30X10	3	51	BE.SM3001501005
	200	5	1	30X10	3	51	BE.SM3002001005
	250	5	1	30X10	3	51	BE.SM3002501005
	300	5	1	30X10	3	51	BE.SM3003001005
	400	5	1	30X10	3	51	BE.SM3004001005
	500	5	1	30X10	3	51	BE.SM3005001005
	600	5	1	30X10	3	51	BE.SM3006001005



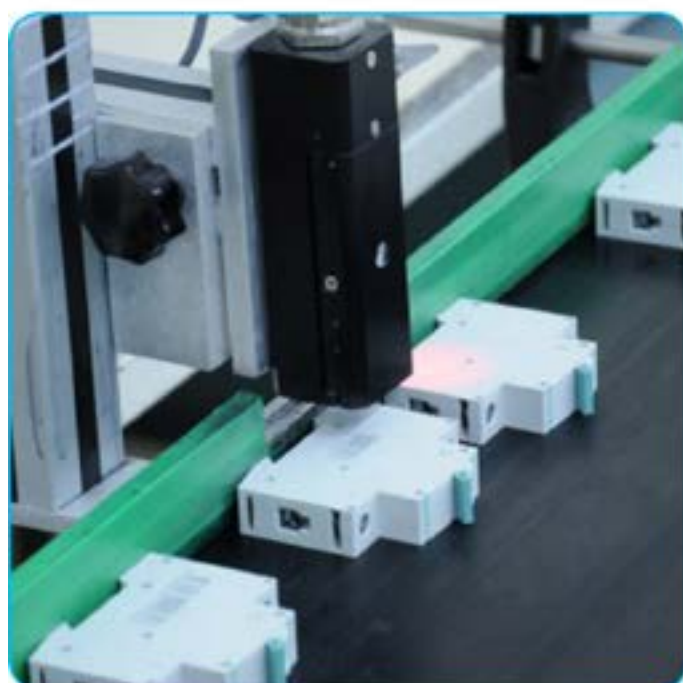
Reactive Power Controllers

Type Code	Specification	Diemnsion (mm)	Min.Order /Pcs	Pack/Qty	Order Code
BER144	12 steps , 3 phase compensation as separately, control for single phase power capacitors, led display	144x144	1	6	BE.SR144-012



Selection of LV Reactive Power Compansation Products

400 V AC 3 Phases Power Capacitor			Cable	MCCB		MCB	Contactor for Capacitor	Power Contactors
Type Code	Rated Power (kVAr)	Rated Current (A)	Section (mm²)	Type	Rated Current (A)	Rated Current (A)	Type	Type
BE3K400-1	1,0	1,4	2.5			C6	BECK-18	BECM-18
BE3K400-1.5	1,5	2,16	2.5			C10	BECK-18	BECM-18
BE3K400-2.5	2,5	3,6	2.5			C10	BECK-18	BECM-18
BE3K400-5	5,0	7,2	2.5	BEI160 (C-Series & K-Series)	20	C16	BECK-18	BECM-22
BE3K400-7.5	7,5	10,80	2.5	BEI160 (C-Series & K-Series)	20	C20	BECK-22	BECM-32
BE3K400-10	10,00	14,40	4	BEI160 (C-Series & K-Series)	32	C25	BECK-22	BECM-40
BE3K400-12.5	12,5	18,00	6	BEI160 (C-Series & K-Series)	40	C32	BECK-32	BECM-50
BE3K400-15	15,0	21,60	6	BEI160 (C-Series & K-Series)	40	C40	BECK-32	BECM-65
BE3K400-20	20,0	28,80	10	BEI160 (C-Series & K-Series)	50	C50	BECK-40	BECM-75
BE3K400-25	25,0	36,00	16	BEI160 (C-Series & K-Series)	63	C63	BECK-50	BECM-85
BE3K400-30	30,0	43,20	25	BEI160 (C-Series & K-Series)	80	C80	BECK-65	BECM-100
BE3K400-40	40	57,6	35	BEI160 (C-Series & K-Series)	100	C100	BECK-75	BECM-125
BE3K400-50	50	72	35	BEI160 (C-Series & K-Series)	125	C125	BECK-85	BECM-150





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