

## Motor Protection Switches Series BE5



BE500400

### Schrack-Info

- Motor protection switch 3-pole from 0.16A up to 32A

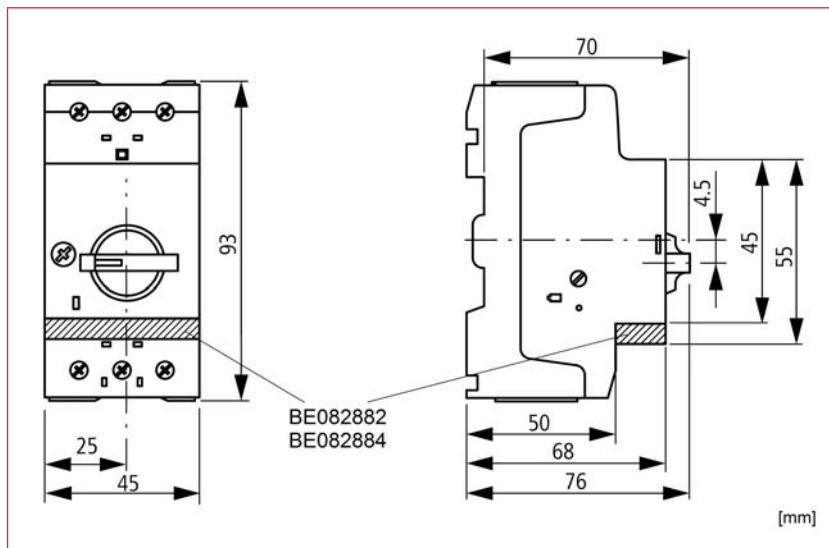
Standards			EN 60647, IEC 60947
Rated current $I_n$			0,1 - 25A
Rated uninterrupted current = rated operational current $I_u = I_e$			25A or current setting of the overcurrent release
Rated operational voltage $U_e$			690VAC
Rated frequency			40 – 60Hz
Tripping	Overload	adjustable 0,6 - 1 x $I_n$	
	Short circuit	set permanently on 14 x $I_n$	
Phase failure protection			Yes
Tripping capacity	0,1 - 10A	0,1 - 10A: inherently stable (100kA)	
	10 - 16A	50kA	
	16 - 25A	16kA	
Direction of electric current			any
Rated impulse withstand voltage $U_{imp}$			6000VAC
Overvoltage category			III
Current heat loss (3 pole at operating temperature)			6W
Lifespan	mechanical	10.000 operations	
	electrical (AC-3At 400V)	10.000 operations	
Maximum operating frequency			40 operations per hour
Short-circuit rating	AC-3 (up to 690V)	25A	
	DC-5 (up to 250V)	25A (3 contacts in series)	
Rated making capacity	$\cos \varphi = 0,45$	230 - 690VAC	110A
Rated breaking capacity	$\cos \varphi = 0,45$	230VAC	90A
	$\cos \varphi = 0,45$	400VAC	90A
	$\cos \varphi = 0,45$	500VAC	64A
	$\cos \varphi = 0,45$	690VAC	54A
Rated operational current enclosed, not enclosed $I_e$	AC-1-application	230VAC	16A
		400VAC	16A
		440VAC	16A
		500VAC	16A
		690VAC	16A
	AC-3-application	230VAC	8,7A
		400VAC	8,8A
		440VAC	7,7A
		500VAC	6,4A
		690VAC	4,8A
	AC-4-application	230VAC	6,6A
		400VAC	6,6A
		440VAC	6A
		500VAC	5A
		690VAC	3,4A

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Degree of protection	Device Terminations	Device IP20 Terminations IP00
Protection against direct contact		Finger and back-of-hand proof
Mechanical shock resistance half-sinusoidal shock 10ms to IEC 60068-2-27		25g
Altitude		max. 2000m
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Pollution degree		3
Ambient temperature		Stock -25°C up to 80°C Not enclosed -25°C up to 55°C Enclosed -25°C up to 40°C
Terminals	Screw-terminals	Single wire 1 x 1 - 6mm <sup>2</sup> / 2 x 1 - 2,5mm <sup>2</sup> Flexible with ferrule 1 x 1 - 4mm <sup>2</sup> / 2 x 1 - 2,5mm <sup>2</sup>
Torque		Mains 1,7Nm

Article	max. rated operational power AC-3					Continuous rated current $I_n$	Setting range	
	220V, 230V, 240V P [kW]	380V, 400V, 415V P [kW]	440V P [kW]	500V P [kW]	660V, 690V P [kW]		Overload tripping $I_r$	Short circuit tripping $I_m$
BE500160	-	-	-	-	0.06	0.16	0.1 - 0.16	2.2
BE500250	-	0.06	0.06	0.06	0.12	0.25	0.16 - 0.25	3.5
BE500400	0.06	0.09	0.12	0.12	0.18	0.4	0.25 - 0.4	5.6
BE500630	0.09	0.12	0.18	0.25	0.25	0.63	0.4 - 0.63	8.8
BE501000	0.12	0.25	0.25	0.37	0.55	1	0.63 - 1	14
BE501600	0.25	0.55	0.55	0.75	1.1	1.6	1 - 1.6	22
BE502500	0.37	0.75	1.1	1.1	1.5	2.5	1.6 - 2.5	35
BE504000	0.75	1.5	1.5	1.5	3	4	2.5 - 4	56
BE506300	1.1	2.2	3	3	4	6.3	4 - 6.3	88
BE510000	2.2	4	4	4	7.5	10	6.3 - 10	140
BE516000	4	7.5	9	9	12.5	16	10 - 16	224
BE520000	5.5	9	11	12.5	15	20	16 - 20	280
BE525000	5.5	12.5	12.5	15	22	25	20 - 25	350

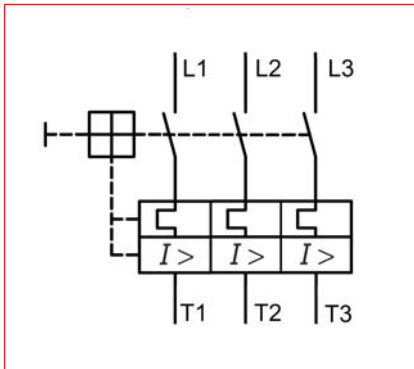
## Dimensions



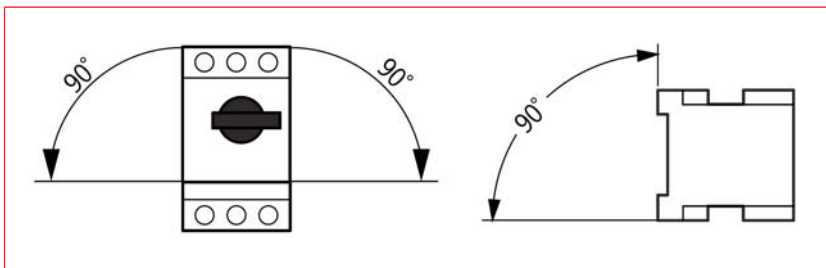
# Motor Protection Switches Series BE5, BE6

## Motor Protection Switches Series BE5

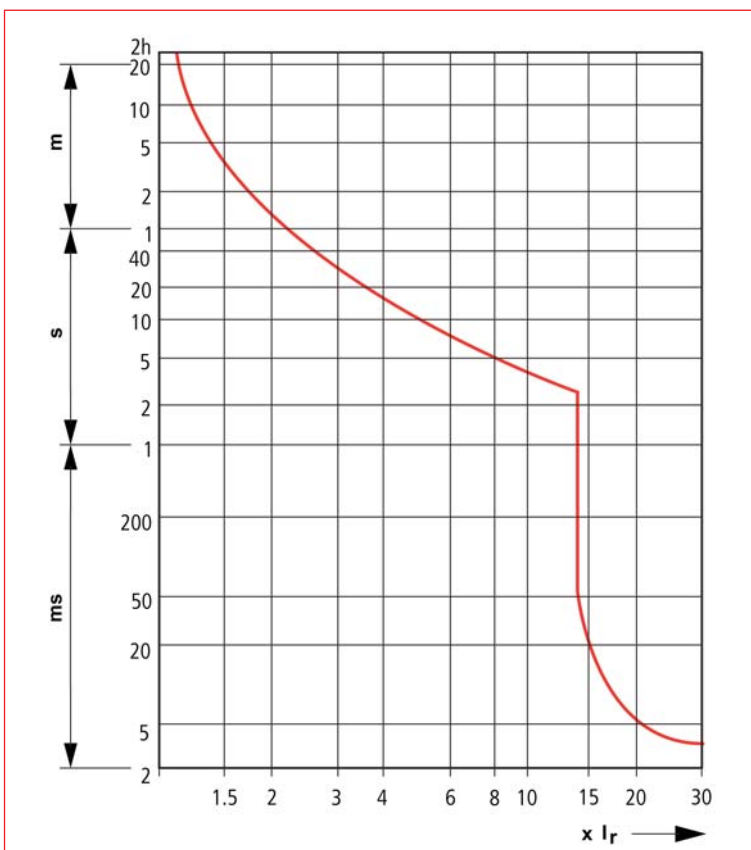
### Circuit Diagram



### Mounting Position

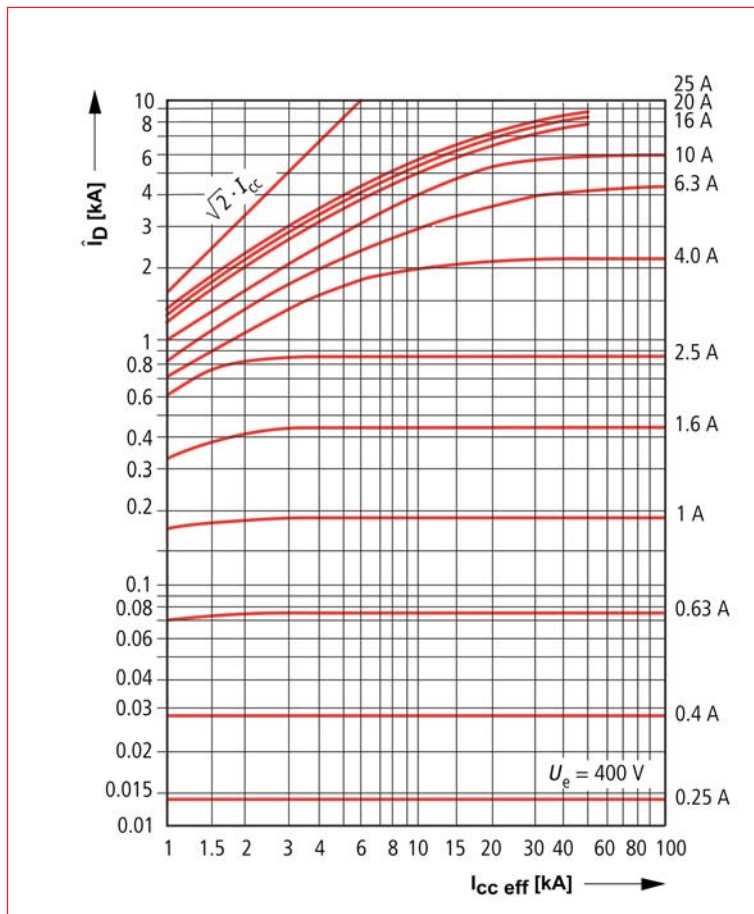


### Tripping Characteristic Curve



Motor Protection Switches Series BE5

Let-through Energy Diagram



DESCRIPTION	TYPE NO.	AVAILABLE	ORDER NO.
<b>Motor protection switches series BE5</b>			
0.16 - 0.25A			<b>BE500250</b>
0.25 - 0.40A			<b>BE500400</b>
0.40 - 0.63A			<b>BE500630</b>
0.63 - 1.00A			<b>BE501000</b>
1.00 - 1.60A			<b>BE501600</b>
1.60 - 2.50A			<b>BE502500</b>
2.5A-4.0A			<b>BE504000</b>
4.0-6.3A			<b>BE506300</b>
6.3-10A			<b>BE510000</b>
10-16A			<b>BE516000</b>
16-20A			<b>BE520000</b>
20-25A			<b>BE525000</b>
25-32A			<b>BE532000</b>
<b>Auxiliary contacts</b>			
Auxiliary contact front, 1NO+1NC	BE5/6-HIF11		<b>BE082882</b>
Auxiliary contact front, 1NO	BE5/6-HIF10		<b>BE082884</b>