

Switching Devices - Capacitor Duty Contactors

- Soft Switching of Capacitor
- Excellent Damping of Inrush
- Improved Power Quality
- UL Certified

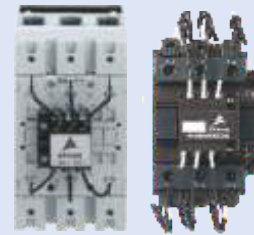
Features

- Excellent damping of inrush current
- Improved power quality (e.g. avoidance of voltage sags)
- Longer useful service life of main contacts of capacitor contactor
- Soft switching of capacitor and thus longer useful service life
- Enhanced mean life expectancy of PFC system

- Reduced ohmic losses
- Leading contacts with wiper function
- Tamper-proof and protected resistors
- Easy access for cable connection
- Voltage range: 400 / 690 V
- Output range: 12.5 to 100 KVAR
- Series J230 / C240 for all PFC systems
- AC6b utilization category

Applications

- Damping of inrush current in low-voltage PFC systems
- For PFC systems with and without reactors



Technical data : Capacitor duty contactors standard series

Type	B44066*****C240								
Main contacts		C1011	C1211	C1611	C2011	C2511	C3312	C4012	C6012
Rated insulation voltage V_i, V_{is}	[V AC]	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾
Admissible frequency of operation	1/h	240	240	240	240	240	240	240	100
Contact life	million operations	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Cable cross section	[mm ²]	2.5	2.5	4	4	6	16	16	50
Flexible with cable end sleeve - 1 conductor Flexible with cable end sleeve - 2 conductors	[mm ²]	1.5	1.5	2.5	4	4	6	6	25
Solid without cable end sleeve - 1 conductor Solid without cable end sleeve - 2 conductors	[mm ²]	4	4	6	10	16	25	25	50
Operating range of magnet coils in multiples of control voltage V_s		0.78-1.1	0.78-1.1	0.78-1.1	0.78-1.1	0.78-1.1	0.78-1.1	0.78-1.1	0.78-1.1
Auxiliary contacts¹⁾									
Rated insulation voltage V_i, V_{is}	[V AC]	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾
Rated current I_{th} at ambient temperature: 40° C	I_{coth} [A]	10	10	10	10	10	10	10	10
60° C	I_{coth} [A]	8	8	8	8	8	8	8	8
Utilization category AC15									
220 ... 240 V	I_{coth} [A]	3	3	3	3	3	3	3	3
380 ... 440 V	I_{coth} [A]	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Short circuit protection									
Highest fuse size, slow, gL (gG)	I_{coth} [A]	10	10	10	10	10	10	10	10
Auxiliary contacts									
NO		1	1	1	1	1	1	1	1
NC		1	1	1	1	1	2	2	2

Technical data : Capacitor duty contactors premium series

Type	B44066*****J230								
Main contacts		S1811	S2411	S3211	S5011	S6211	S7411	S9011	S9911
Rated insulation voltage V_i, V_{is}	[V AC]	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	1,000 ¹⁾	1,000 ¹⁾
Admissible frequency of operation	1/h	120	120	120	120	120	80	80	80
Contact life	million operations	0.25	0.15	0.15	0.15	0.15	0.12	0.12	0.12
Cable cross section	[mm ²]	1.56	2.525	2.525	450	450	450	0.595/10120	0.595/10120
Solid or standard									
Flexible	[mm ²]	1.54	2.516	2.516	1035	1035	1035	0.570/1095	0.570/1095
Flexible with multicore cable end	[mm ²]	1.54	2.516	2.516	635	635	635	0.570/1095	0.570/1095
Cables per clamp		2	1	1	1	1	1	2	2
Operating range of V_s magnet coils in multiples of control voltage		0.85-1.1	0.85-1.1	0.85-1.1	0.85-1.1	0.85-1.1	0.85-1.1	0.85-1.1	0.85-1.1
Auxiliary contacts¹⁾									
Rated insulation voltage V_i, V_{is}	[V AC]	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾
Rated current I_{th} at ambient temperature max. 40 °C	I_{coth} [A]	16	10	10	10	10	10	10	10
max. 60 °C	I_{coth} [A]	12	6	6	6	6	6	6	6
Utilization category AC15									
220 to 240 V	I_{coth} [A]	12	3	3	3	3	3	3	3
380 to 440 V	I_{coth} [A]	4	2	2	2	2	2	2	2
Short circuit protection									
Highest fuse rating slow, gL (gG)	I_{coth} [A]	25	20	20	20	20	20	20	20
Auxiliary contacts									
NO/NC		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1

IEC 947-4-1, IEC 947-5-1, EN 60947-4-1, EN 60947-5-1, VDE 0660

1) Applies to networks with grounded star point, overvoltage category I to IV, pollution severity 3 (industrial standard), Vimp = 8 kV



Adding Values to Work

An ISO 27001:2013 Certified Company

Network Techlab (I) Pvt. Ltd.

41, Sarvodaya Industrial Estate, Opp. Paper Box, Off. Mahakali Caves Road, Andheri East, Mumbai - 400093, India.

Tel: 022-6681 4101 | Email: info@netlabindia.com | Web: www.netlabindia.com

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