

CONTACTOR GENERAL CHARACTERISTICS Standard - IS/IEC 60947-4-1

Operating Temperature : -20°C to +60°C
 Operating Altitude : 2000m
 Humidity : 50% RH at 60°C
 : 95% RH at 40°C
 Vibration : 5 to 100 Hz (0.7g in x,y,z plane)
 Operating position : ±30°



CONTACTOR CAT. REFERENCE	BCH15KT.3.11.*	BCH15LT.3.11.*	BCH15MT.3.11.*	BCH15NT.3.11.*	BCH15PT.3.11.*	MCE15RN3*	MCE15SON3*	MCE15SN3*
Nominal current rating at 380 / 415V 50Hz (AC3 Duty) Ie (A)	80	95	110	150	175	200	265	300
Standard power rating at 380V / 415V 50Hz P (kW)	37/40	45/47	55/59	75/80	90/95	110/110	90/90	160/160
Electrical endurance at rated current AC3 Duty Million	0.8	0.8	0.8	0.8	0.8	0.52	0.55	0.351
Maximum frequency of no load operation op / h	3000			1200		600	600	300

MECHANICAL DATA									
Frame size	mm	79			110		178		
Number of poles		3	3	3	3	3	3	3	3
Mounting Dimensions	mm	M5 70x100			M5 100x130		M6 160x166.5		
Weight	Kg	1.8		2.2	4		8.3		
Mechanical durability	Million	10					5		

POWER CIRCUIT								
Operational voltage	Ue (V)	1000					660	
Insulation voltage	Ui (V)	1000					690	
Impulse Voltage withstand	kV	8	8	8	8	8	6	6
Thermal current	Ith (A)	125		135	230	250	300	315
Connections	mm ²	50			120		240	
AC-1 Duty rated at 380 / 415V 50Hz	Ie (A)	125		135	230	250	300	315
AC-4 Duty rated at 380 / 415V 50Hz	Ie (A)	80	90	110	150	175	140	165
Electrical life at rated current AC4 Duty	ops.	20000					65000	60000
AC-4 Duty rating for 200000 operations	Ie (A)	27	31	34	41	50	70	80
Stator current rating acc. to AC2 Duty (A) ≤55°C	100% DF	80	95	110	150	175	200	265
Rotor Duty rating-Delta Connected (A) ≤40°C	100% DF	160	175	224	280	350	393	465
	60% DF	185	200	250	325	406	507	600
	40% DF	217	236	245	380	475	621	735
	20% DF	272	296	360	475	594	879	1040
Maximum Rotor Voltage - Starting & Inching Starting & Plugging		Delta connected - 1160V ; Star connected - 1380V Delta connected - 580V ; Star connected - 690V						
Transformer primary switching 500V AC	A	36	40	50	65	80	90	135
Capacitor switching (single bank only) 380/400V, 3ph	kVAR	40	50	60	80	100	110	158

CONTROL CIRCUIT								
Coil VA Consumption	Pickup	VA	250			350		1040
	Seal	VA	19			5		116

*Suffix code for Coil Voltage