

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		CE15AN 3-B	CE15BN 3-B	CE15CN 3-B	CE15DN 3-B	CE15EN 3-B	CE15FN 3-B	CE15GN 3-B	CE15HN 3-B	CE15JN 3-B	CE15KN 3-B
Nominal current rating at 380 / 415V 50Hz (AC3 Duty)	le (A)	6	9	12	18	25	32	40	50	65	75
Standard power rating at 380V / 415V 50Hz	P (kW)	2.2/2.26	4/4	5.5/5.5	9.0/9.0	11/11	15/15	18.5/22	22/25	30/37	37/37
Electrical endurance at rated current AC3 Duty	Million	2.7	2.3	2.1	1.5	1.5	1.7	1.1	1.3	1.4	1.3
Maximum frequency of no load operation	op / h	600	600	600	600	600	600	600	600	600	600

MECHANICAL DATA											
Frame size	mm	45						65			
Number of poles		4	4	4	3	3	3	3	3	3	3
Mounting Dimensions	mm	M4 34.5x60						M5 55x95			
Weight	Kg	0.41	0.41	0.41	0.44	0.44	0.44	1.28	1.28	1.28	1.28
Mechanical durability	Million	20	20	20	20	20	20	10	10	10	10

POWER CIRCUIT											
Operational voltage	Ue (V)	660	660	660	660	660	660	660	660	660	660
Insulation voltage	Ui (V)	690	690	690	690	690	690	690	690	690	690
Impulse Voltage withstand	kV	6	6	6	6	6	6	6	6	6	6
Thermal current	Ith (A)	20	20	20	32	40	40	60	75	80	80
Connections	mm ²	2.5	2.5	2.5	6	6	6	25	25	25	25
AC-1 Duty rated at 380 / 415V 50Hz	le (A)	20	20	20	32	40	40	60	75	80	80
AC-4 Duty rated at 380 / 415V 50Hz	le (A)	6	9.1	12	16	23	23	37	44	50	59
Electrical life at rated current AC4 Duty	ops.	60000	59000	43000	67000	52000	75000	58000	62000	35000	34000
AC-4 Duty rating for 200000 operations	le (A)	2.5	4.3	4.8	8.3	10	12	17	34	34	34
Stator current rating acc. to Ac2 Duty (A) ≤55°C	100% DF	6	9	12	16	25	32	40	50	65	73
Rotor Duty rating-Delta Connected (A) ≤40°C	100% DF	12	16	21	29	40	52	64	76	104	126
	60% DF	15	21	27	38	51	67	83	98	134	163
	40% DF	19	26	33	47	63	82	101	120	164	200
	20% DF	27	36	46	66	89	116	143	170	232	283
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	3.1	4.2	5.4	7.6	10	13	15	20	20	24
Capacitor switching (single bank only) 380/400V, 3ph	kVAR	4.9	6.7	8.6	12	15	15	25	30	37	40

CONTROL CIRCUIT											
Coil VA Consumption	Pickup	VA	70			92			230		
	Seal	VA	6.4			8			28		

■ Suffix code for Coil Voltage • Code for built-in Aux. Contact (S-1NO, C-1NC)

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CONTACTOR CAT. REFERENCE	BCH15KT ·3·11·	BCH15LT ·3·11·	BCH15MT ·3·11·	BCH15NT ·3·11·	BCH15PT ·3·11·	MCE15RN 3-7	MCE15SON 3-7	MCE15SN 3-7
Nominal current rating at 380 / 415V 50Hz (AC3 Duty) I _e (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 U _e (V)	1000					660		
Insulation voltage U _i (V)	1000					690		
Impulse Voltage withstand kV	8	8	8	8	8	6	6	6
Thermal current I _{th} (A)	125		135	230	250	300	315	315
Connections mm ²	50			120		240		
AC-1 Duty rated at 380 / 415V 50Hz I _e (A)	125		135	230	250	300	315	315
AC-4 Duty rated at 380 / 415V 50Hz I _e (A)	80	90	110	150	175	140	165	170
Electrical life at rated current AC4 Duty ops.	20000					65000	60000	60000
AC-4 Duty rating for 200000 operations I _e (A)	27	31	34	41	50	70	75	80
Stator current rating acc. to AC2 Duty (A) ≤55°C 100% DF	80	95	110	150	175	200	265	300
Rotor Duty rating-Delta Connected (A) ≤40°C 100% DF	160	175	224	280	350	393	425	465
60% DF	185	200	250	325	406	507	550	600
40% DF	217	236	245	380	475	621	700	735
20% DF	272	296	360	475	594	879	950	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	100	135
Capacitor switching (single bank only) 380/400V, 3ph kVAR	40	50	60	80	100	110	140	158

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

■ Suffix code for Coil Voltage

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 Operating position : ±30°



CONTACTOR CAT. REFERENCE		BCH54 ·3·22·	BCH55 ·3·22·	BCH57 ·3·22·	BCH62 ·3·22·	BCH64 ·3·22·	BCH76 ·3·12·	BCH78 ·3·12·
Nominal current rating at 380 / 415V 50Hz (AC3 Duty)	le (A)	400	450	550	700	860	1000	1200
Standard power rating at 380V / 415V 50Hz	P (kW)	220/240	220/240	280/315	375/400	475/500	550/600	650/700
Electrical endurance at rated current AC3 Duty	Million	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Maximum frequency of no load operation	op / h	300	300	300	300	300	120	120

MECHANICAL DATA								
Frame size	mm	220			280		334	
Number of poles		3	3	3	3	3	3	3
Mounting Dimensions	mm	M8 110x220			M10 175x280		M12 120x380	
Weight	Kg	13.0	13.0	13.5	26.4	27.6	49	53
Mechanical durability	Million	5	5	5-10	5-10	5-10	1-5	1-5

POWER CIRCUIT									
Operational voltage	Ue (V)	1000	1000	1000	1000	1000	690	690	
Insulation voltage	Ui (V)	1000	1000	1000	1000	1000	690	690	
Impulse Voltage withstand	kV	8	8	8	8	8	8	8	
Thermal current	Ith (A)	600	600	760	1000	1100	1200	1350	
Connections	mm ²	2(40x5)	2(40x5)	2(50x5)	2(60x5)	2(60x6)	2(60x6)	2(60x6)	
AC-1 Duty rated at 380 / 415V 50Hz	le (A)	600	600	760	1000	1100	1200	1350	
AC-4 Duty rated at 380 / 415V 50Hz	le (A)	400	450	550	700	860	1000	1200	
Electrical life at rated current AC4 Duty	ops.	6000	6000	6000	6000	6000	6000	6000	
AC-4 Duty rating for 200000 operations	le (A)	100	115	140	185	215	265	300	
Stator current rating acc. to AC2 Duty (A) ≤55°C	100% DF	400	450	550	700	860	1000	1200	
Rotor Duty rating-Delta Connected (A) ≤40°C	100% DF	750	840	1060	1400	1540	1680	1850	
	60% DF	860	960	1210	1600	1760	1930	2120	
	40% DF	1020	1130	1430	1890	2080	2270	2500	
	20% DF	1300	1420	1790	2370	2610	2840	3130	
Maximum Rotor Voltage - Starting & Inching Starting & Plugging		Delta connected - 1700V ; Star connected - 2000V Delta connected - 850V ; Star connected - 1000V					Delta connected - 1160V ; Star connected - 1380V Delta connected - 580V ; Star connected - 690V		
Transformer primary switching 500V AC	A	185	203	250	315	390	450	540	
Capacitor switching (single bank only) 380/400V, 3ph	kVAR	190	200	250	350	400	450	500	

CONTROL CIRCUIT									
Coil VA Consumption	Pickup	VA	950			1600		2450	
	Seal	VA	11			25		75	