

# CONTACTOR RATINGS CHART



		CURRENT RATINGS																												
40°C I <sub>th</sub>	AC 1 - 415 V	20	20	20	32	32	32	32	65	65	85	85	100	100	100	130	160 <sup>*)</sup>	225 <sup>*)</sup>	275 <sup>*)</sup>	350 <sup>*)</sup>	400 <sup>*)</sup>	500 <sup>*)</sup>	600 <sup>*)</sup>	600 <sup>*)</sup>	700 <sup>*)</sup>	800 <sup>*)</sup>	1050 <sup>*)</sup>	1350 <sup>*)</sup>	1650 <sup>*)</sup>	
60°C I <sub>th</sub>	AC 1 - 415 V	16	16	16	32	32	32	32	65	65	75	75	100	100	100	110	145 <sup>*)</sup>	200 <sup>*)</sup>	250 <sup>*)</sup>	300 <sup>*)</sup>	350 <sup>*)</sup>	400 <sup>*)</sup>	500 <sup>*)</sup>	500 <sup>*)</sup>	600 <sup>*)</sup>	700 <sup>*)</sup>	875 <sup>*)</sup>	1150 <sup>*)</sup>	1450 <sup>*)</sup>	
	AC 2, AC 3 - 415 V	4.9	8.5	11.5	9	12	16	23	30	37	43	55	60	72	85	97	116	146	190	205	265	305	370	400	460	580	750	860	1060	
	AC 4 <sup>1)</sup> - 415 V	2	3.6	3.6	4.3	6.6	9	9	12	14	16.5	22	25.5	31	38	44	38	38	49	55	73	89	100	118	135	-	-	-	-	
	AC 2, AC 3 - 690 V	2.8	4.9	6.7	5	7	9	12	18	21	25	25	34	42	49	57	66	93	135	165	250	290	315	350	400	500	650	800	970	
	AC 2, AC 3 - 1000 V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	60	85	100	113	131	141	155	200	250	300	375	400	
		MOTOR STARTER RATINGS													AT OPERATIONAL VOLTAGE 400/415 V. ALL kW RATINGS APPROXIMATE															
60°C I <sub>th</sub>	AC 2, AC 3 - 415 V	2.2	4	5.5	4	5.5	7.5	11	15	20	22	30	32	40	45	55	55	75	90	110	132	160	200	220	250	355	425	500	630	
	AC 4 <sup>1)</sup> - 415 V	0.75	1.5	1.5	1.8	3	4	4	5.5	6.3	7.5	11	13	17	20	22	20	20	25	30	40	50	55	63	75	-	-	-	-	
	AC 2, AC 3 - 690 V	2.2	4	5.5	4	5.5	7.5	10	15	18.5	22	22	32	40	45	55	63	90	132	160	200	250	315	315	355	500	600	800	1000	
	AC 2, AC 3 - 1000 V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	75	110	132	160	185	200	220	280	355	400	555	600	
Star-delta <sup>2)</sup> @ 415 V	Line/delta	4	7.5	11	7.5	11	15	22	25	37	40	45	55	63	80	90	110	132	160	200	250	315	355	400	400	560	800	900	1100	
	Star point Y	-	-	-	14	19	25	37	50	60	72	90	100	125	145	165	160	220	250	315	400	420	560	630	750	1000	1250	1450	1850	
		CAPACITOR													AND LAMP SWITCHING AT OPERATIONAL VOLTAGE 415 V															
Capacitor switching AC 6b <sup>5)</sup> @ 415 V	40°C	-	-	-	8	8	10	12.5	20	25	35	35	50	50	50	50	75	90	110	130	145	165	200	210	240	285	400	450	500	
	60°C	-	-	-	8	8	10	12.5	20	22	30	30	42	50	50	50	75 <sup>6)</sup>	90 <sup>6)</sup>	110 <sup>6)</sup>	130 <sup>6)</sup>	145 <sup>6)</sup>	165 <sup>6)</sup>	200 <sup>6)</sup>	210 <sup>6)</sup>	240 <sup>6)</sup>	285 <sup>6)</sup>	400 <sup>6)</sup>	450 <sup>6)</sup>	500 <sup>6)</sup>	
Incandescent lamps <sup>11)</sup>	AC 5b	5	9	9	12	16	18	22	30	37	43	51	60	70	76	90	116	146	190	205	265	305	370	400	460	580	750	877	1072	
Fluorescent lamps <sup>12)</sup>	AC 5a	14.5	14.5	15	22.5	25	28	29	37	41	57	57	77	81	90	100	116	146	190	205	265	305	370	400	460	580	750	877	1072	
		MECHANICAL, ELECTRICAL AND COIL DATA																												
Mechanical life	mill/Ops	15	15	15	13	13	13	13	13	13	12	12	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrical life at AC3 @ 400 V	Ops/Hr	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1	0.8	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Max operating rate 0.25 sec start (@ max Amps)	Ops/Hr	250	250	300	700	700	700	600	600	600	600	600	500	500	500	500	300	300	300	300	300	300	300	300	300	300	300	60	60	
Switching delay AC Coil <sup>3)</sup>	Pick-up	15-40	15-40	15-40	15-30	15-30	15-30	15-30	15-30	15-30	15-30	15-30	20-40	20-40	20-40	20-40	20-55	20-55	25-60	25-60	30-60	30-60	30-60	50-120	50-120	50-120	50-120	50-80	50-80	
	Drop-out	15-33	15-33	15-33	10-60	10-60	10-60	10-60	10-60	10-60	10-60	10-60	10-60	10-60	10-60	10-60	40-70	40-70	45-80	45-80	45-80	45-80	45-80	33-70	33-70	33-70	33-70	35-55	35-55	
AC Coil consumption	Pick-up	35	35	35	75	75	75	105	105	105	135	135	235	235	235	400	130 <sup>*)</sup>	130 <sup>*)</sup>	220 <sup>*)</sup>	220 <sup>*)</sup>	385 <sup>*)</sup>	385 <sup>*)</sup>	385 <sup>*)</sup>	995 <sup>*)</sup>	955 <sup>*)</sup>	880 <sup>*)</sup>	880 <sup>*)</sup>	2450 <sup>*)</sup>	2450 <sup>*)</sup>	
	Hold-in	5	5	5	9.5	9.5	9.5	12.3	12.3	12.3	13.3	13.3	19	19	19	24	6 <sup>*)</sup>	6 <sup>*)</sup>	7 <sup>*)</sup>	7 <sup>*)</sup>	17.5 <sup>*)</sup>	17.5 <sup>*)</sup>	17.5 <sup>*)</sup>	12 <sup>*)</sup>	12 <sup>*)</sup>	12 <sup>*)</sup>	12 <sup>*)</sup>	48 <sup>*)</sup>	48 <sup>*)</sup>	
	W	1.8	1.8	1.8	2.7	2.7	2.7	3.1	3.1	3.1	3.3	3.3	6.5	6.5	6.5	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC Coil consumption (CA7/9's 24V DC)	Pick-up (peak)	3	3	3	10 (17)	10 (17)	10 (17)	10 (17)	10 (17)	10 (17)	16 (25)	16 (25)	200	200	200	325	210	210	205	205	400	400	400	900	900	785	785	-	-	-
	Hold-in	3	3	3	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	4.5	4.5	4.5	5.5	2.5	2.5	2.5	2.5	3.5	3.5	3.5	5	5	5.5	5.5	-	-	-
Auxiliary contacts available (NO or NC)	Std	1/1	1/1	1/1	1/1	1/1	1/1	1/1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Auxiliary contacts available (1NO + 1NC)	Std	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	
Integral auxiliary contact	AC 12, 60 °C	6	6	6	20	20	20	20	-	-	-	-	-	-	-	-	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	
	AC 15, 415V	1.8	1.8	1.8	6	6	6	6	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	
Add-on auxiliary block	AC 12, 60 °C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	16 <sup>7)</sup>	
	AC 15, 415V	1.2	1.2	1.2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

		ELECTRONIC OVERLOAD SELECTION			
Electronic Overload CEP7-1EF and adjustment range Direct mounting application <sup>9)</sup>	Amps	 CEP7-1EFDB 3.2...16 A CAP7-1EFEB 5.4...27 A	 CEP7-1EFFD 11...55 A		Current Transformer Kits or separate components available
		THERMAL OVERLOAD SELECTION			
Thermal Overload and adjustment range. Direct mounting application <sup>9)</sup>	Amps			 CT7N-43-C 17...47 A CT7N-55-C 45...60 A	 CT7N-97-C 85...97 A

**Utilisation categories**

**Main Poles**

AC 1: Non-inductive or slightly inductive loads: resistance furnaces

AC 2: Slip-ring motors: Starting, plugging

AC 3: Squirrel-cage motors: Starting, switching off motors during running

AC 4: Squirrel-cage motors: Starting, plugging, inching

**Auxiliary Contacts**

AC 12: Control of resistive loads and solid state loads with isolation by optocouplers

AC 15: Control of electromagnetic loads: contactors coils

1) Approximately 200,000 operations

2) Available with standard electronic coil or electronic coil with PLC interface

3) Star point Y = star connected. Star point Δ = delta connected star

4) Amp rating at 690 V

5) For PF correction panels min 6 pH inductive or use of harmonic filters

6) kVar rating at 55°C

7) Amp rating at AC 12, 40°C

8) For 100...250 V AC coil voltage

9) Maximum current setting to be no more than the rated current of contactor

10) Refer Price List Catalogue for complete Cat. No. and Amp range

11) Ratings at 230/240V

12) CA8/7 with no suppressors fitted. CA9 electronic coils include suppression as standard

13) Gas discharge lamps at @ 40° C which are enclosed