

# CONTACTOR RATINGS CHART



		CURRENT RATINGS													CURRENT RATINGS														
40 °C I <sub>th</sub>	AC 1 - 415 V	20	20	32	32	32	32	65	65	85	85	100	100	100	130	160 <sup>5)</sup>	225 <sup>5)</sup>	275 <sup>5)</sup>	350 <sup>5)</sup>	400 <sup>5)</sup>	500 <sup>5)</sup>	600 <sup>5)</sup>	600 <sup>5)</sup>	700 <sup>5)</sup>	800 <sup>5)</sup>	1050 <sup>5)</sup>	1350 <sup>5)</sup>	1650 <sup>5)</sup>	
	60 °C	16	16	32	32	32	32	65	65	75	75	100	100	100	110	145 <sup>5)</sup>	200 <sup>5)</sup>	250 <sup>5)</sup>	300 <sup>5)</sup>	350 <sup>5)</sup>	400 <sup>5)</sup>	500 <sup>5)</sup>	500 <sup>5)</sup>	600 <sup>5)</sup>	700 <sup>5)</sup>	875 <sup>5)</sup>	1150 <sup>5)</sup>	1450 <sup>5)</sup>	
	Amps	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	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	65	93	135	165	250	290	315	350	400	500	650	800	970
	AC 2, AC 3 - 1000 V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	85	100	100	100	100	155	200	250	300	375	400		
		MOTOR STARTER RATINGS AT OPERATIONAL VOLTAGE 400/415 V. ALL kW RATINGS APPROXIMATE													MOTOR STARTER RATINGS AT OPERATIONAL VOLTAGE 400/415 V. ALL kW RATINGS APPROXIMATE														
60 °C	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	1.8	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	55	90	132	160	200	250	315	315	355	500	600	800	1000	
	AC 2, AC 3 - 1000 V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	110	132	132	132	132	220	280	355	400	555	600	
Star-delta <sup>4)</sup>	Line/delta	4	7.5	7.5	11	15	22	25	37	40	50	55	63	80	90	90	132	160	185	220	280	335	400	450	630	710	850	1000	
	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													CAPACITOR AND LAMP SWITCHING														
Capacitor switching	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>7)</sup>	90 <sup>7)</sup>	110 <sup>7)</sup>	130 <sup>7)</sup>	145 <sup>7)</sup>	165 <sup>7)</sup>	200 <sup>7)</sup>	210 <sup>7)</sup>	240 <sup>7)</sup>	285 <sup>7)</sup>	400 <sup>7)</sup>	450 <sup>7)</sup>	500 <sup>7)</sup>	
	AC 6b <sup>9)</sup> at 415 V	-	-	8	8	10	12.5	20	22	30	30	42	50	50	50	75 <sup>7)</sup>	90 <sup>7)</sup>	110 <sup>7)</sup>	130 <sup>7)</sup>	145 <sup>7)</sup>	165 <sup>7)</sup>	200 <sup>7)</sup>	210 <sup>7)</sup>	240 <sup>7)</sup>	285 <sup>7)</sup>	400 <sup>7)</sup>	450 <sup>7)</sup>	500 <sup>7)</sup>	
Incandescent Lamps <sup>15)</sup>	AC 5b	5	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	
	AC 5a	14.5	14.5	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, ELECTRICAL AND COIL DATA														
Mechanical life	mill/Ops	15	15	13	13	13	13	13	13	12	12	6	6	6	6														
	Electrical life at AC 3, 415 V	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)	250	250	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	Pick-up	15-40	15-40	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	
AC Coil <sup>16)</sup>	Drop-out	ms	15-33	15-33	10-60	10-60	10-60	10-60	10-60	10-60	10-60	10-60	10-60	10-60	20-40	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	VA	35	35	75	75	75	105	105	135	135	235	235	235	400	130 <sup>9)10)</sup>	130 <sup>9)10)</sup>	220 <sup>9)10)</sup>	220 <sup>9)10)</sup>	385 <sup>9)10)</sup>	385 <sup>9)10)</sup>	385 <sup>9)10)</sup>	955 <sup>9)</sup>	955 <sup>9)</sup>	880 <sup>9)</sup>	880 <sup>9)</sup>	2450 <sup>9)10)</sup>	2450 <sup>9)10)</sup>
	Hold-in	VA	5	5	9.5	9.5	9.5	12.3	12.3	12.3	13.3	13.3	19.6	19.6	19.6	24	6 <sup>9)10)</sup>	6 <sup>9)10)</sup>	7 <sup>9)10)</sup>	7 <sup>9)10)</sup>	17.5 <sup>9)10)</sup>	17.5 <sup>9)10)</sup>	17.5 <sup>9)10)</sup>	12 <sup>9)10)</sup>	12 <sup>9)10)</sup>	12 <sup>9)10)</sup>	12 <sup>9)10)</sup>	48 <sup>9)10)</sup>	48 <sup>9)10)</sup>
	Hold-in	W	1.8	1.8	2.7	2.7	2.7	3.1	3.1	3.1	3.3	3.3	5	5	5	9													
DC Coil consumption	Pick-up (Peak)	W	3	3	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	W	2.6	2.6	1.7	1.7	1.7	1.7	1.7	2.5	2.5	4	4	4	5	2.5	2.5	2.5	2.5	3.5	3.5	3.5	5	5	5.5	5.5	-	-	
Auxiliary contacts available	Std/Max	1/5	1/5	1/9	1/9	1/9	1/9	1/9	-/8	-/8	-/8	-/8	-/8	-/8	-/8	2/10	2/10	2/10	2/10	2/10	2/10	2/10	2/10	2/10	2/10	2/10	2/10	2/10	
Integral auxiliary contact	AC 12 60 °C	Amps	6	6	20	20	20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	AC 15, 415 V	Amps	1.8	1.8	6	6	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Add-on auxiliary block	AC 12 60 °C	Amps	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	AC 15, 415 V	Amps	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	

For larger size contactors up to 2650 A, please contact NHP

ELECTRONIC OVERLOAD SELECTION						ELECTRONIC OVERLOAD SELECTION						
Electronic overload 193-EE and adjustment range. Direct mounting application <sup>11)</sup>	Amps					Current transformer kits <sup>13)14)</sup>						Contact NHP
		193-EECB 1.0...5.0 A 193-EEED 3.2...16 A 193-EEEB 5.4...27 A	193-EEED 15.4...27 A 193-EEFD 9...45 A 193-EEQD 11...55 A	193-EEEG 18...90 A 193-EEVE 60...120 A	193-EEEH 18...90 A 193-EEVE 60...120 A							
THERMAL OVERLOAD SELECTION						ADVANCED ELECTRONIC OVERLOAD SELECTION						
Thermal overload <sup>11)12)</sup> and advanced electronic range	Amps						E300 0.5...65000 A <sup>13)12)</sup>					
		193-KA/KB/KC 0.1...125 A	193-T1AA/AB/AC 0.1...25 A	193-T1BC 15...38 A 193-T1CC 17...60 A	193-T1DC 35...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

- Notes:  
1) 200,000 operations  
2) Available with electronic coil or electronic coil and interface  
3) Fitted with electronic coil and interface as standard  
4) Star point Y = star connected. Star point Δ = delta connected star point  
5) Amp rating at 690V  
6) For PF correction panels min 6pH inductive or use of harmonic filters  
7) kVar rating at 55°C  
8) Amp rating at AC 12, 40°C  
9) VA rating at 100...250VAC  
10) Electronic type coil  
11) Maximum current setting to be no more than the rated current of contactor  
12) Refer Price List Catalogue for complete Cat. No and Amp range  
13) Availability - TBA  
14) Overload relay sold separately  
15) Ratings at 230/240 V  
16) With no suppressors fitted

For your complete motor control solution, please refer to our locally stocked and supported range of enclosures and operators.

Pushbuttons, indicators and accessories chart  
Code: NWHSABPBCHART

Easy Selection Guide - Enclosures  
Code: NHPNTEESGAUST

Price List Catalogue - Australia

Price List Catalogue - New Zealand

Technical data correct at time of publishing. Contact NHP for further information.

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