1st numeral

2nd numeral

1st numeral: conforming to AS1939 protection against ingress of solid bodies 2nd numeral: conforming to AS1939 protection against ingress of water

0	No protection.	*	0	No protection.	*
1	of 50mm diameter sphere not allowed. Contact with	50 8	1	Protected against vertically falling drops of water. Limited ingress permitted.	¥
2	hazardous parts not permitted. Full penetration of 12.5mm diameter sphere not allowed.		2	Protected against vertically falling drops of water with enclosure tilted 15° from the vertical. Limited ingress permitted.	NEV
	The jointed test finger shall have adequate clearance from hazardous parts.		3	·	T.
3	The access probe of 2.5mm diameter	-	4	Protected against water splashed from all directions. Limited ingress permitted.	灙
	shall not penetrate.		5	Protected against jets of water. Limited ingress permitted.	> <u>*</u> c
4	The access probe of 1.0mm diameter shall not penetrate.	= 4	6	Protected against strong jets of water. Limited ingress permitted.	> 4
5	Limited ingress of dust permitted (no harmful deposit).		7	Protected against the effects of immersion between 15cm and 1m.	15cm nmm]
6	Totally protected against ingress of dust.		8	Protected against long periods of immersion under pressure.	¥.

IP69K for High temperature, high pressure wash down and steam clean.

3 Phase Current Ratings (AS/NZS3008.1.1:1998)

Table 6: Three single core V75 PVC or PVC/PVC 0.6/1kV cables

10010 0. 11	Table 6. Three single core v751 v6 of 1 v6/1 v6 0.0/1kv cables								
		Curren	ıt Carrying	Capacit	у А				
	Unenclos	ed		Enclosed	Buried Direct	Underground Ducts			
Conductor Size	Spaced	Spaced from surface	Touching	Conduit in air					
	18	38	1000	188	/// ///				
mm ²	Cu	Cu	Cu	Cu	Cu	Cu			
1	16	14	13	11	21	16			
1.5	20	17	16	14	27	20			
2.5	29	25	23	20	37	28			
4	38	33	31	26	49	37			
6	49	42	40	34	61	46			
10	67	58	54	47	81	61			
16 25	89	77	72	62	105	80			
25	120	105	97	87	135	105			
35	150	125	120	100	160	125			
50	180	155	145	125	190	150			
50 70	230	195	185	155	235	185			
95	285	245	230	185	280	225			
120	335	285	265	220	315	260			
150	385	330	310	250	355	290			
185	445	385	355	285	400	335			
240	540	455	425	340	465	390			

The standard utilisation categories fix the current values which the switching device must make or break. They depend on:

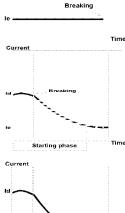
- the type of load being switched (squirrel cage or slip ring motor, resistors)
 the conditions under which opening and closing is performed (motor running or stalled or in the course of starting, reverse running).

Category AC-1

Applies to all AC machines (loads), whose power factor is at least equal to 0.95 (cos $\emptyset \ge 0.95$)

Application Example:

Heating distribution.

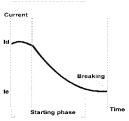


Category AC-2

Applies to starting, plugging and inching of slip ring motors. On closing, the contactor makes the starting current (approx 2.5xle). On opening, it must break the starting current (voltage ≤ mains voltage). Breaking is severe.

Application Example:

Lifting overhead cranes, gantries.



Category AC-3

Applies to squirrel cage motors with breaking during normal running of the motor. On closing, the contactor makes the starting current, which is about 5 to 7 times the rated current of the motor. On opening, it breaks the rated current drawn by the motor.

Application Example:

Conveyor belts, compressors, pumps, mixers, air conditioning units.



Category AC-4

Applies to plugging and inching of squirrel cage motors. The contactor makes the starting current (approx 5 to 7xle). On opening, it breaks this same current which varies according to motor speed. Breaking is severe.

Application Example:

Hoists, printing machines, wire drawing machines.

Table 3: Two single core V75 PVC or PVC/PVC 0.6/1kV Cables

Current Carrying Capacity A							
	Unenclos	ed		Enclosed	Buried Direct	Underground Ducts	
Conductor Size	Spaced	Spaced from surface	Touching	Conduit in air			
	1100	1100	18	7	9//2		
mm ²	Cu	Cu	Cu	Cu	Cu	Cu	
1	16	16	13	13	24	18	
1.5	21	21	16	16	31	24	
2.5	30	29	23	22	43	33	
4	40	39	31	30	56	42	
6	51	49	40	38	71	53	
10	69	67	54	53	94	71	
16	92	89	72	71	120	91	
25	125	120	97	97	160	120	
25 35	155	145	120	115	190	145	
50	185	175	145	140	225	170	
70	240	225	185	175	275	210	
95	295	275	230	210	330	260	
120	345	320	265	250	380	295	
150	395	365	310	280	425	335	
185	460	425	360	325	480	380	
240	550	510	430	385	560	450	

These ratings are based on 40°C ambient air temperature and 25°C ambient soil temperature.