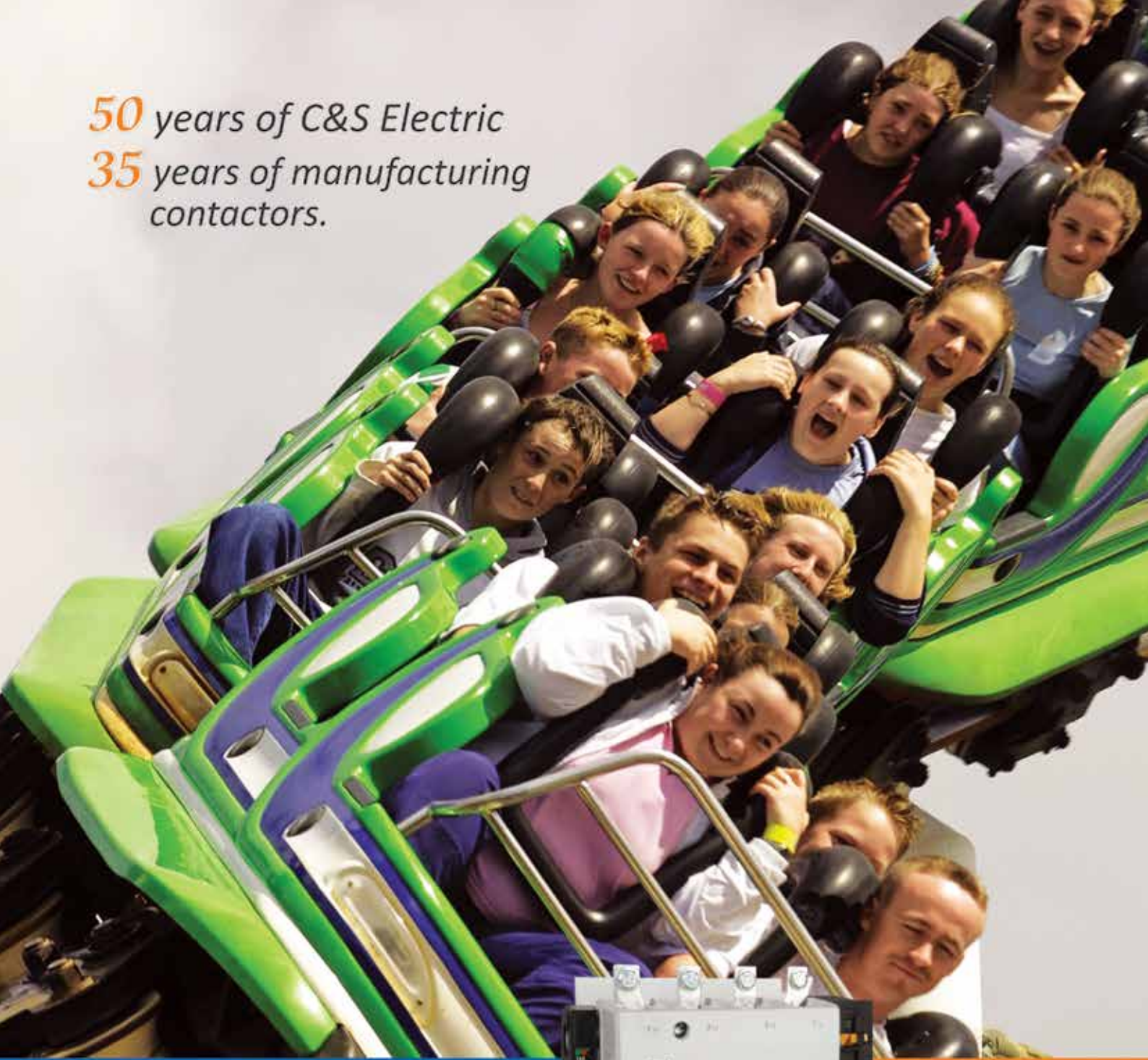


50 years of C&S Electric
35 years of manufacturing
contactors.



robustTa2
Contactor 7A~38A

robustTa
Contactor 9A~800A



TC Contactors. Enjoy life, non-stop.



RoHS
Compliant

robusta 2 Contactor

Conforming IS/IEC60947-4-1 & IEC60947-4-1



GLOBAL CERTIFICATION



Contactor							
AC1 Duty (A)	AC3 415V Long life			Auxiliary Contacts	Reference	MRP (₹)	Std. Pkg. (Nos.)
	kW	HP	A				
25	2.2	3	7	1 NO+1NC	TC1D0711■	895	1
25	4	5.5	9	1 NO+1NC	TC1D0911■	960	
25	5.5	7.5	12	1 NO+1NC	TC1D1211■	1070	
32	9	12	18	1 NO+1NC	TC1D1811■	1250	
40	11	15	25	1 NO+1NC	TC1D2511■	1575	
50	15	20	32	1 NO+1NC	TC1D3211■	3370	
50	18.5	25	38	1 NO+1NC	TC1D3811■	4655	

Overload Relay fixing attachment			
Use for Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
TC1D0711-1811	TA7D0765	25	1
TC1D2511-3811	TA7D2565	25	

Coil Surge Suppressor				
Description	Voltage Ratings	Reference	MRP (₹)	Std. Pkg. (Nos.)
Varistor (AC/DC) Clip on mounting	12~55V 50/60Hz	TAD4VE	445	10
	56~136V 50/60Hz	TAD4VF		
	137~277V 50/60Hz	TAD4VU		
	278~575V 50/60Hz	TAD4VN		

Spare Top Housing for 3P Contactors			
For Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
TC1-D0711	TA5-D0711	735	1
TC1-D0911	TA5-D0911		
TC1-D1211	TA5-D1211		
TC1-D1811	TA5-D1811	840	
TC1-D2511	TA5-D2511	1080	
TC1-D3211	TA5-D3211	2070	
TC1-D3811	TA5-D3811	3035	

Spare AC Coils for Contactor			
Use for Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
TC1D07	TX1-D3■	445	1
TC1D09			
TC1D12			
TC1D18			
TC1D25			
TC1D32			
TC1D38			

Mechanical Interlocks - Horizontal Mounted			
Use of Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
TC1D07~TC1D38	LA9-D09978	360	10

robusta2 Contactor Coils						
Contactor TC1-D/TX1D3	24V	48V	110V	220V	240V	415V
50 Hz	B5	E5	F5	M5	U5	N5

Thermal Overload Relay						
Relay setting range (A)	Standard power ratings of 3-Phase Motors 50/60Hz, AC3 Category		Reference	Suitable for Contactor Rating (Amps)	MRP (₹)	Independent Mounting Kit
	HP	kW				
23-32	20	15	TR2DM32353	32	1900	TA7D3264 MRP ₹275
30-38	30	22	TR2DM38355	38		

Note:

- robusta Thermal Overload Relay Reference TR2D09301~TR2D25322 can be mounted directly on robusta 2 Contactor with additional fixing attachment Reference TA7D0765 (Contactor TC1D0711~1811) or TA7D2565 (Contactor TC1D2511~3811).
- robusta 2 Thermal Overload Relay reference TR2DM32353 ~TR2DM38355 can be mounted directly on robusta 2 Contactor without any additional fixing attachment.

How to order:

- Select applicable Coil Voltage required for Contactor.
- Complete the code by replacing the ■ form above.
- For common accessories please refer page no. 74 & 75.

Mini Contactors

Conforming IS/IEC60947-4-1 & IEC60947-4-1



Control Relays - 10 Amps

Rated Current (Ith)	Contact Configuration	With AC Coil			With DC Coil		
		Reference	MRP (₹)	Std. Pkg. (Nos.)	Reference	MRP (₹)	Std. Pkg. (Nos.)
10	2NO+2NC	TCA2-M22	970	10	TCA3-M22	1300	10
	3NO+1NC	TCA2-M31			TCA3-M31		
	4NO	TCA2-M40			TCA3-M40		
	1NO + 3NC	TCA2-M13			TCA3-M13		
	4NC	TCA2-M04			TCA3-M04		

■ Please specify Coil Voltage.

Power Contactors - 3 Pole

AC1 Duty A	AC3 415V Long Life			Auxiliary Contacts		With AC Coil			Auxiliary Contacts		With DC Coil		
	kW	HP	A			Reference	MRP (₹)	Std. Pkg. (Nos.)			Reference	MRP (₹)	Std. Pkg. (Nos.)
20	2.2	3	6	1NO	-	TC1-M0610	830	10	1NO	-	TP1-M0610	1220	10
				-	1NC	TC1-M0601			-	1NC	TP1-M0601		
	4	5.5	9	1NO	-	TC1-M0910	890		1NO	-	TP1-M0910	1275	
				-	1NC	TC1-M0901			-	1NC	TP1-M0901		
	5.5	7.5	12	1NO	-	TC1-M1210	960		1NO	-	TP1-M1210	1400	
				-	1NC	TC1-M1201			-	1NC	TP1-M1201		
	7.5	10	16	1NO	-	TC1-M1610	1140		1NO	-	TP1-M1610	1550	
				-	1NC	TC1-M1601			-	1NC	TP1-M1601		

■ Please specify Coil Voltage.

Coil Voltage Codes for Mini Contactors & Control Relays

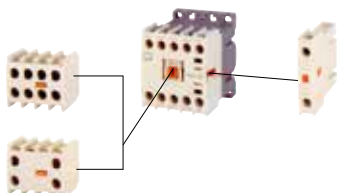
Contactor	Voltage				
	24	48	110	220	415
AC	B	E	F	M	N
DC	BD	ED	FD	MD	-

Overload Relays for Mini Contactors - Direct Mounting

Relay Range (Amps)	Reference	MRP (₹)	Std. Pkg. (Nos.)	Independent Mounting Kit
0.10 - 0.16	TR2 - M0.14A	1120	1	Reference TA7-M0964 MRP (₹) 365
0.16 - 0.25	TR2 - M0.21A			
0.25 - 0.4	TR2 - M0.33A			
0.4 - 0.63	TR2 - M0.52A			
0.63 - 1	TR2 - M0.82A			
1 - 1.6	TR2 - M1.3A			
1.6 - 2.5	TR2 - M2.1A			
2.5 - 4	TR2 - M3.3A			
4 - 6	TR2 - M5A			
5 - 8	TR2 - M6.5A			
6 - 9	TR2 - M7.5A			
7 - 10	TR2 - M8.5A			
9 - 13	TR2 - M11A	1230	1	Reference TA7-M0964 MRP (₹) 365
12 - 16	TR2 - M14A			

☒ Non Stockable item

Accessories



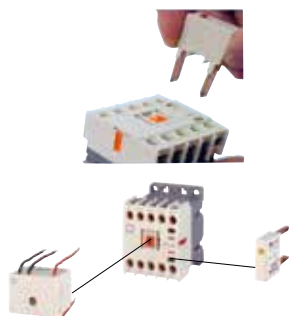
Add-On-Block				
Contact Configuration		Reference	MRP (₹)	Std. Pkg. (Nos.)
Front Mounted	2NO	TA1-M20	245	10
	1NO+1NC	TA1-M11		
	2NC	TA1-M02		
	4NO	TA1-M40	390	
	3NO+1NC	TA1-M31		
	2NO+2NC	TA1-M22		
	1NO+3NC	TA1-M13		
	4NC	TA1-M04		
Side Mounted	1NC	TA8-M01	240	
	1NO	TA8-M10		



Mechanical Interlocks for Horizontally Mounted				
Use For Contactor		Reference	MRP (₹)	Std. Pkg. (Nos.)
AC	DC			
TC1-MS06	TP1-MS06	TA9-M978	370	1
TC1-MS09	TP1-MS09			
TC1-MS12	TP1-MS12			
TC1-MS16	TP1-MS16			



Electronic Timer					
Description	Delay	Time	Voltage	Reference	MRP (₹)
Front Mounting Electronic Timer	ON Delay	0.1~30 Sec	AC/DC	TA2-M/ 1N	1200
	OFF Delay	0.1~30 Sec	24~48V	TA2-M/ 1F	
	ON Delay	0.1~30 Sec	AC	TA3-M/ 2N	
	OFF Delay	0.1~30 Sec	100~220V	TA3-M/ 2F	



Coil Suppressor				
Description	Voltage	Reference	MRP (₹)	Std. Pkg. (Nos.)
Varistor	AC 24~48V	TA9-M980/1	400	1
	AC 60~127V	TA9-M980/2		
	AC 200~240V	TA9-M980/3		
	DC 12~24V	TA9-M980/4		
	DC 30~72V	TA9-M980/5		
	DC 100~127 V	TA9-M980/6		
	DC 200~250 V	TA9-M980/7		

Exceed Contactor 6A~95A

Conforming IS/IEC60947-4-1 & IEC60947-4-1



GLOBAL CERTIFICATION



Exceed 3 Pole Power Contactor rating 6A-95A									Exceed 4 Pole Power Contactor rating 9A-95A									
Size	AC1 Duty A	AC3 415 V Long Life			Auxiliary Contacts		Reference	MRP (₹)	Std. Pkg. (Nos.)	AC1 Duty A	Auxiliary Contacts		Reference	MRP (₹)	Std. Pkg. (Nos.)			
		kW	HP	A														
Frame 1	25	2.2	3	6	1NO	-	TC1D0610E	685	1	25	4NO	--	TC1D12004E	POR	1			
					-	1NC	TC1D0601E				2NO	2NC	TC1D12008E					
		4	5.5	9	1NO	-	TC1D0910E	760		32	4NO	--	TC1D18004E					
					-	1NC	TC1D0901E				4NO	--	TC1D25004E					
		5.5	7.5	12	1NO	-	TC1D1210E	855		40	2NO	2NC	TC1D25008E					
					-	1NC	TC1D1201E				4NO	--	TC1D40004E					
Frame 2	32	9	12.5	18	1NO	-	TC1D1810E	995		60	2NO	2NC	TC1D40008E					
					-	1NC	TC1D1801E				4NO	--	TC1D50004E					
		40	11	15	25	1NO	-	TC1D2510E			1330					2NO	2NC	TC1D50008E
						-	1NC	TC1D2501E								4NO	--	TC1D65004E
						1NO	-	TC1D3210E								2NO	2NC	TC1D65008E
						-	1NC	TC1D3201E								4NO	--	TC1D80004E
Frame 3	50	15	20	32	1NO	-	TC1D3210E	2810		80	2NO	2NC	TC1D80008E					
					-	1NC	TC1D3201E				4NO	--	TC1D95004E					
		60	22	30	40	1NO	1NC	TC1D4011E			3915					2NO	2NC	TC1D80008E
						1NO	1NC	TC1D5011E								4NO	--	TC1D95004E
						1NO	1NC	TC1D6511E								2NO	2NC	TC1D95008E
						1NO	1NC	TC1D8011E								2NO	2NC	TC1D95008E
80	25	35	50	1NO	1NC	TC1D5011E	5130	125		4NO	--	TC1D95004E						
	37	50	65	1NO	1NC	TC1D6511E	6820			2NO	2NC	TC1D95008E						
125	45	60	80	1NO	1NC	TC1D8011E	8540											
	45	60	95	1NO	1NC	TC1D9511E	9880											

Exceed Contactor 3 Pole: Rating 115 A~ 630A

AC1 Duty A	AC3 415 V Long Life			With AC Coil		With DC Coil		Std. Pkg. (Nos.)
	kW	HP	A	Reference	MRP (₹)	Reference	MRP (₹)	
200	59	80	115	LC1FDP115AE	13110	LC1FDP150AE	POR	1
250	80	108	150	LC1FDP150AE	17670	LC1FDP185AE		
275	100	136	185	LC1FDP185AE	22000	LC1FDP225AE		
315	110	148	225	LC1FDP225AE	23940	LC1FDP265AE		
350	140	190	265	LC1FDP265AE	27550	LC1FDP330AE		
400	180	240	330	LC1FDP330AE	34485	LC1FDP400AE		
500	220	300	400	LC1FDP400AE	41350	LC1FDP500AE		
700	280	380	500	LC1FDP500AE	57430	LC1FDP630AE		
1000	375	500	630	LC1FDP630AE	84820	LC1FDP630AE		

Exceed Contactors 4 Pole: Rating AC1 200A ~ 1000A

AC1 Duty A	Main Pole Configuration	With AC Coil		With DC Coil		Std. Pkg. (Nos.)
		Reference	MRP (₹)	Reference	MRP (₹)	
200	4 NO	LC1FDP1154AE	16210	LC1FDP1154AE	POR	1
250	4 NO	LC1FDP1504AE	18320	LC1FDP1504AE		
275	4 NO	LC1FDP1854AE	30660	LC1FDP1854AE		
315	4 NO	LC1FDP2254AE	23890	LC1FDP2254AE		
350	4 NO	LC1FDP2654AE	36010	LC1FDP2654AE		
400	4 NO	LC1FDP3304AE	42690	LC1FDP3304AE		
500	4 NO	LC1FDP4004AE	53700	LC1FDP4004AE		
700	4 NO	LC1FDP5004AE	59570	LC1FDP5004AE		
1000	4 NO	LC1FDP6304AE	120940	LC1FDP6304AE		



Exceed Control Relay				
Rated Current(Ie) AC15 at 240V (Amps)	Contact Configuration	Reference	MRP (₹)	Std. Pkg. (Nos.)
10	2 NO + 2 NC	TCA2-DN22E**	840	1
	3 NO + 1 NC	TCA2-DN31E**		
	4 NO	TCA2-DN40E**		

AC Coil Voltage for exceed contactor						
Contactor	Voltage					
	110	24	235	220	240	415
50Hz	F5	B5	C5W*	M5	U5	N5

- NOTE:**
1. Add Suffix ■ Coil voltage to complete product code
 2. 235 V (C5W) Coil available only upto 25 Amps (AC3) Contactors.
 3. 22A, 38A & 45A current ratings also available on request. (MOQ - 50 Nos.)
 4. For add-on accessories and spare coil refer page no. 75.

robusta Power Contactors

Conforming IS/IEC60947-4-1 & IEC60947-4-1



Control Relays - 10 Amps							
Rated Current(Ie) AC15 at 240V (Amps)	Contact Configuration	With AC Coil			With DC Coil		
		Reference	MRP (₹)	Std. Pkg. (Nos.)	Reference	MRP (₹)	Std. Pkg. (Nos.)
10	2 NO + 2 NC	TCA2-DN22 ■	900	10	TCA3-DN22 ■	1400	10
	3 NO + 1 NC	TCA2-DN31 ■			TCA3-DN31 ■		
	4 NO	TCA2-DN40 ■			TCA3-DN40 ■		

■ To specify Coil Voltage, please refer page no. 73

Power Contactors 3 Pole : Rating 9A ~ 95A															
Size	AC1 Duty A	AC3 415 V Long Life			Auxiliary Contacts		With AC Coil		Std. Pkg. (Nos.)	Auxiliary Contacts		With DC Coil		Std. Pkg (Nos.)	
		kW	HP	A			Reference	MRP (₹)				Reference	MRP (₹)		
Frame 1	25	4	5.5	9	1NO	-	TC1-D0910 ■	835	1	1NO	-	TP1-D0910 ■	1280	1	
					-	1NC	TC1-D0901 ■			-	1NC	TP1-D0901 ■			
		5.5	7.5	12	1NO	-	TC1-D1210 ■	950		1NO	-	TP1-D1210 ■	1445		
					-	1NC	TC1-D1201 ■			-	1NC	TP1-D1201 ■			
	32	9	12.5	18	1NO	-	TC1-D1810 ■	1110		1NO	-	TP1-D1810 ■	1615		
					-	1NC	TC1-D1801 ■			-	1NC	TP1-D1801 ■			
		11	15	22	1NO	-	TC1-D2210 ■	1280		1NO	-	TP1-D2210 ■	2210		
					-	1NC	TC1-D2201 ■			-	1NC	TP1-D2201 ■			
Frame 2	40	11	15	25	1NO	-	TC1-D2510 ■	1400		1NO	-	TP1-D2510 ■	2375		
					-	1NC	TC1-D2501 ■			-	1NC	TP1-D2501 ■			
	50	15	20	32	1NO	-	TC1-D3210 ■	3010		1NO	-	TP1-D3210 ■	4655		
					-	1NC	TC1-D3201 ■			-	1NC	TP1-D3201 ■			
		18.5	25	38	1NO	-	TC1-D3810 ■	4210		1NO	-	TP1-D3810 ■	5440		
					-	1NC	TC1-D3801 ■			-	1NC	TP1-D3801 ■			
	Frame 3	60	22	30	40	1NO	1NC	TC1-D4011 ■		4465	1NO	1NC	TP1-D4011 ■		6270
		80	22	30	45	1NO	1NC	TC1-D4511 ■		5130	1NO	1NC	TP1-D4511 ■		7600
25			35	50	1NO	1NC	TC1-D5011 ■	5615		1NO	1NC	TP1-D5011 ■	7730		
37			50	65	1NO	1NC	TC1-D6511 ■	7220		1NO	1NC	TP1-D6511 ■	8845		
100		37	50	70	1NO	1NC	TC1-D7011 ■	7550		1NO	1NC	TP1-D7011 ■	9975		
125		45	60	80	1NO	1NC	TC1-D8011 ■	9120		1NO	1NC	TP1-D8011 ■	10810		
		45	60	95	1NO	1NC	TC1-D9511 ■	11100		1NO	1NC	TP1-D9511 ■	13760		

■ To specify Coil Voltage, please refer page no. 73

robusta Power Contactors

Conforming IS/IEC60947-4-1 & IEC60947-4-1



GLOBAL CERTIFICATION



Power Contactors 3 Pole : 115~160A AC3

AC1 Duty A	AC3 415 V Long Life			Auxiliary contacts		With AC Coil		Std. Pkg. (Nos.)
	kW	HP	A			Reference	MRP (₹)	
200A	55	73	115	1NO	1NC	TC1-D115116■*	13030	1
	55	73	115	1NO	1NC	TC1-D11511■*	13120	
	55	73	120	1NO	1NC	TC1-D120116■*	13495	
	55	73	120	1NO	1NC	TC1-D12011■*	13590	
	75	101	150	1NO	1NC	TC1-D150116■*	18050	
	75	101	150	1NO	1NC	TC1-D15011■*	18150	
	75	101	160	1NO	1NC	TC1-D160116■*	18340	
	75	101	160	1NO	1NC	TC1-D16011■*	18430	

Power Contactors 4 Pole: Rating AC1 200A

AC1 Duty A	Main Pole Configuration		With AC Coil		Std. Pkg. (Nos.)
			Reference	MRP (₹)	
200A	4NO	--	TC1-D115004■*	14540	1
	4NO	--	TC1-D1150046■*	14400	
	4NO	--	TC1-D150004■*	19000	
	4NO	--	TC1-D1500046■*	18910	

* Busbar connection * Cable connection

Spare main contacts sets (115~160), 3P/4P

Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
TC1D115	TA5 D115118031	5420	1
TC1D120	TA5 D120118031	5610	
TC1D150	TA5 D150118031	6370	
TC1D160	TA5 D160118031	6840	
TC1D115004	TA5 D115804	6650	
TC1D150004	TA5 D150804	7030	

Spare Bus Bar connection sets (115~160), 3P/4P

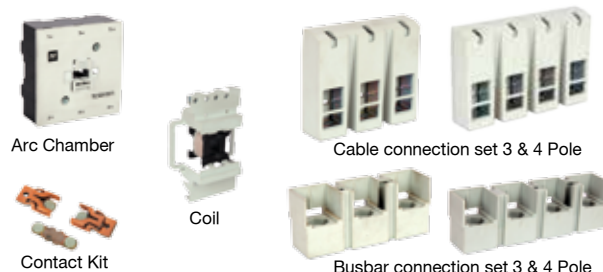
Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
TC1D115	TA9 D11511503	290	1
TC1D120			
TC1D150			
TC1D160			
TC1D115004	TA9 D115504	440	
TC1D150004			

Spare Arc Chamber (top housing) for 3P Contactors (115~160)

Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
TC1D115	TA5 D1151150	1900	1
TC1D120	TA5 D1201150		
TC1D150	TA5 D1501150		
TC1D160	TA5 D1601150		

Spare Coils (115~160), 3P/4P

	Reference	MRP (₹)	Std. Pkg. (Nos.)
AC Coil 50 Hz AC	TX1D8■B5	1510	1
	TX1D8■F5		
	TX1D8■M5		
	TX1D8■N5		



Spare Cable connection sets (115~160), 3P/4P

Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
TC1D115	TA9 D11511603	580	1
TC1D120			
TC1D150			
TC1D160			
TC1D115004	TA9 D115604	780	
TC1D150004			

Spare Arc Chamber (top housing) for 4P Contactors(115~160)

Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
TC1D115004	TA5 D115450	1970	1
TC1D150004	TA5 D150450		

AC Coil Voltage

Contactor	Voltage			
	110	24	220	415
50Hz	F5	B5	M5	N5

■ To specify Coil Voltage

robustTa Power Contactors

Conforming IS/IEC60947-4-1 & IEC60947-4-1



Power Contactors with Dust Cover 3 Pole

AC1 Duty A	AC3 415 V Long Life			With AC Coil		Std. Pkg. (Nos.)	With DC Coil		Std. Pkg. (Nos.)
	kW	HP	A	Reference	MRP (₹)		Reference	MRP (₹)	
200	59	80	115	LC1FDP115A ■	14250	1	LC1FDP115A ■	16100	1
250	80	108	150	LC1FDP150A ■	18900		LC1FDP150A ■	21000	
275	100	136	185	LC1FDP185A ■	23700		LC1FDP185A ■	28500	
275	105	140	200	LC1FDP200A ■	24300		LC1FDP200A ■	29300	
315	110	148	225	LC1FDP225A ■	25700		LC1FDP225A ■	30000	
350	140	190	265	LC1FDP265A ■	29600		LC1FDP265A ■	33700	
350	150	200	300	LC1FDP300A ■	34600		LC1FDP300A ■	38000	
400	180	240	330	LC1FDP330A ■	37000		LC1FDP330A ■	40565	
500	220	300	400	LC1FDP400A ■	44460		LC1FDP400A ■	48450	
600	240	320	460	LC1FDP460A ■	55810		-	-	
700	280	380	500	LC1FDP500A ■	62225		LC1FDP500A ■	64600	
800	355	430	580	LC1FDP580A ■	64600		-	-	
1000	375	500	630	LC1FDP630A ■	91200		LC1FDP630A ■	104500	
1600	425	580	780	☒ LC1FDP780A ■	180500		☒ LC1FDP780A ■	209000	
1000	450	610	800	☒ LC1FDP800A ■	166250		☒ LC1FDP800A ■*	161500	

- Power Contactors with dust cover 2 Pole variants available on requests
- Power Contactors with dust cover rating 115-800A are supplied factory assembled complete with No-Volt Coil and auxiliary contact block 2NO+2NC.
- *For DC supply, Bypass rectifier and connect DC supply directly to coil terminals A1-A2

Hoisting Power Contactors with dust cover 3 Pole: Rating 115A ~ 630A

AC1 Duty A	AC3 415 V Long Life			With AC Coil		Std. Pkg. (Nos.)
	kW	HP	A	Reference	MRP (₹)	
200	59	80	115	LC1FDP115HCA ■	14730	1
250	80	110	150	LC1FDP150HCA ■	22330	
275	100	135	185	LC1FDP185HCA ■	25460	
315	110	150	225	LC1FDP225HCA ■	26790	
350	140	190	265	LC1FDP265HCA ■	31830	
355	150	200	300	LC1FDP300HCA ■	34680	
400	180	220	330	LC1FDP330HCA ■	36580	
500	220	300	400	LC1FDP400HCA ■	45030	
700	280	380	500	LC1FDP500HCA ■	63650	
1000	375	500	630	LC1FDP630HCA ■	94050	

Power Contactors with Dust Cover 3 Pole: Rating 1260A ~ 2100A (for general use)

AC1 Duty A	Main Pole Configuration	With AC Coil		Std. Pkg. (Nos.)
		Reference	MRP (₹)	
1260	3 NO	☒ LC1FDP1250A ■	POR	1
1400	3 NO	☒ LC1FDP1400A ■		
1700	3 NO	☒ LC1FDP1700A ■		
2100	3 NO	☒ LC1FDP2100A ■		



Telecom Contactors 4Pole Rating AC1 25A-50A

AC1 Duty A	Main Pole Configuration	With AC Coil		Std. Pkg. (Nos.)
		Reference	MRP (₹)	
25	4 NO	TC1DT254Ne	POR	1
32	4 NO	TC1DT324Ne		
40	4 NO	TC1DT404Ne		
50	4 NO	TC1DT504Ne		

■ To specify Coil Voltage, please refer page no. 73

robusta Power Contactors

Conforming IS/IEC60947-4-1 & IEC60947-4-1



GLOBAL CERTIFICATION



Power Contactors 4 Pole : Rating AC1 25A ~ 125A

AC1 Duty A	AC1 Duty A	Main Pole Configuration	With AC Coil		Std. Pkg. (Nos.)	With DC Coil		Std. Pkg. (Nos.)
			Reference	MRP (₹)		Reference	MRP (₹)	
Frame 1	25	4NO --	TC1-D12004	1060	1	TP1-D12004	2090	1
		2NO 2NC	TC1-D12008	1295		TP1-D12008	2660	
	32	4NO --	TC1-D18004	1165		-	-	
Frame 2	40	4NO --	TC1-D25004	1730		TP1-D25004	3895	
		2NO 2NC	TC1-D25008	2360		TP1-D25008	5010	
Frame 3	60	4NO --	TC1-D40004	4210		TP1-D40004	6465	
		2NO 2NC	TC1-D40008	7070		TP1-D40008	10450	
	80	4NO --	TC1-D50004	5410		-	-	
		2NO 2NC	TC1-D50008	8460		-	-	
		4NO --	TC1-D65004	7120		TP1-D65004	10925	
		2NO 2NC	TC1-D65008	9540		TP1-D65008	13775	
	100	4NO --	TC1-D70004	8080		TP1-D70004	12160	
		4NO --	TC1-D80004	10000		TP1-D80004	13395	
		2NO 2NC	TC1-D80008	12350		TP1-D80008	15960	
		4NO --	TC1-D95004	10350		TP1-D95004	15030	
	125	2NO 2NC	TC1-D95008	12780		TP1-D95008	16370	

■ To specify Coil Voltage, please refer page no. 73

Power Contactors 4 Pole 4NC : Rating 9A ~ 25A

Size	AC1 Duty A	AC3 415 V Long Life			With AC Coil	MRP (₹)	Std. Pkg. (Nos.)
		KW	HP	A	Reference		
Frame 1	25	4	5.5	9	TC1-D09006	1110	10
		5.5	7.5	12	TC1-D12006	2100	
Frame 2	40	11	15	25	TC1-D25006	2250	

■ To specify Coil Voltage, please refer page no. 73

Power Contactors with dust cover 4 Pole : Rating AC1 200A ~ 1600A

AC1 Duty A	Main Pole Configuration	With AC Coil		Std. Pkg. (Nos.)	With DC Coil		Std. Pkg. (Nos.)
		Reference	MRP (₹)		Reference	MRP (₹)	
200	4 NO	LC1FDP1154	17000	1	LC1FDP1154	23280	1
250	4 NO	LC1FDP1504	19300		LC1FDP1504	31285	
275	4 NO	LC1FDP1854	32750		LC1FDP1854	38950	
315	4 NO	LC1FDP2254	35100		LC1FDP2254	42750	
350	4 NO	LC1FDP2654	37900		LC1FDP2654	48450	
400	4 NO	LC1FDP3304	44935		LC1FDP3304	58900	
500	4 NO	LC1FDP4004	56525		LC1FDP4004	69350	
700	4 NO	LC1FDPM5004	62700		LC1FDPM5004	83600	
1000	4 NO	LC1FDP6304	127300		LC1FDP6304	133000	
1600	4 NO	LC1FDP7804	280250		LC1FDP7804	308750	



■ To specify Coil Voltage, please refer page no. 73

● 4 Pole Power Contactors with dust cover rating AC1 200~1600A are supplied factory assembled complete with No-Volt Coil and auxiliary contact block 2NO+2NC.

☒ Non Stockable item

Capacitor Duty Contactors 3 Pole, AC



Size	kVAR Rating	Auxiliary Contacts	Reference	MRP (₹)	Std. Pkg. (Nos.)
Frame 1	7	1NO+1NC	TC1-D07K11 	1730	1
		2NC	TC1-D07K02 		
	10	1NO+1NC	TC1-D10K11 	1870	
		2NC	TC1-D10K02 		
	12.5	1NO+1NC	TC1-D12K11 	1990	
		2NC	TC1-D12K02 		
	16.7	1NO+1NC	TC1-D16K11 	2775	
		2NC	TC1-D16K02 		
Frame 2	20	1NO+1NC	TC1-D20K11 	3170	
		2NC	TC1-D20K02 		
	25	1NO+1NC	TC1-D25K11 	3600	
		2NC	TC1-D25K02 		
Frame 3	33.3	1NO+2NC	TC1-D33K12 	6650	
	40	1NO+2NC	TC1-D40K12 	9580	
	50	1 NO+2NC	TC1D50K12 	9880	
	60	1NO+2NC	TC1-D60K12 	11300	
	75	1NO+2NC	TC1-D75K12 	13020	



robusta Contactors Coils

AC Coil Voltage Codes for Contactors 9A-95A & Control Relays							
Contactor	Voltage						
TCA2-DN/TC1-D	24	48	110	220	235	240	415
50Hz	B5	E5	F5	M5	C5W*	U5	N5
50/60Hz	B7	E7	F7	M7	-	U7	N7

■ Non-Standard coil Extra MRP @ ₹ 100/- per contactor

* Available from CR-38A Contactor only.

AC Coil Voltage robusta Capacitor Duty Contactors							
Contactor	Voltage						
TC1-D**K	24	110	220	235	240	415	
50Hz	B5	F5	M5	C5W*	U5	N5	
50/60Hz	B7	F7	M7	-	U7	N7	

* Available upto 25kVAR only.

AC Coil for 4 Pole Telecom Contactor				
Contactor	Voltage			
TC1-DT**Ne	230	235	240	415
50Hz	P	C5W	M	N

All coils codes applicable for extra wide band coils.

How to order:

- Select applicable Coil Voltage required for Contactor.
 - Complete the code by replacing the ■
 - To order additional Auxiliary Block, Timers and other accessories, please refer page no. 75
- Non-Standard coil available on request, Extra MRP@ ₹ 500 each per Contactor rating 115#780A

DC Coil Voltage Codes for Contactors 9A-95A & Control Relays					
Contactor	Voltage				
TCA3-DN/TP1-D	24	48	72	110	220
Normal Coil	BD	ED	SD	FD	MD
Wide band Coil#	BW	EW	-	FW	-

Wide band Coil available in 50 Hz only

AC Coil Voltage Codes for Contactors 115A-780A				
Contactor	Voltage			
	110	220	240♦	415
LC1FDP115~225 50Hz	F5	M5	U5	N5
LC1FDP265~780 50/60Hz	F7	M7	U7	N7

♦ Not Available for LC1FDP780

DC Coil Voltage Codes for Contactors 115A-780A				
Contactor	Voltage			
	24#	48	110	220
LC1FDP	BD	ED	FD	MD

Not available for LC1FDP630 & LC1FDP780

Coil Voltage Codes for Contactor 800A			
Contactor	Voltage		
	110/127	220/240	380/400
LC1-FDP - AC	FW*	MW*	QW**
LC1-FDP-DC	FW	MW	QW

*With rectifier DRTE4U

**With rectifier DRTE4S

robusta Overload Relay

GLOBAL CERTIFICATION



Thermal Overload Relays Direct Mounting Trip class 10

Relay Setting Range (Amps)	Standard Power Rating for 3 Ph. Motor at 415V		Reference	Suitable for Contactor Rating (Amps)	MRP (₹)	Independent Mounting Kit	Std. Pkg. (Nos.)
	HP	kW					
Direct Mounting							
0.10 ~ 0.16	*	*	TR2-D09301	9	1100	Reference TA7-D0964 MRP ₹185	1
0.16 ~ 0.25	*	*	TR2-D09302				
0.25 ~ 0.40	*	*	TR2-D09303				
0.40 ~ 0.63	*	*	TR2-D09304				
0.63 ~ 1.00	0.5	0.37	TR2-D09305				
1.00 ~ 1.60	0.75	0.55	TR2-D09306				
1.25 ~ 2.00	1	0.75	TR2-D093X6				
1.60 ~ 2.50	1.5	1.1	TR2-D09307				
2.50 ~ 4.00	2	1.5	TR2-D09308				
4.00 ~ 6.00	3	2.2	TR2-D09310				
5.50 ~ 8.00	5	3.7	TR2-D09312				
7.00 ~ 10.0	5.5	4	TR2-D09314				
9.0 ~ 13.0	7.5	5.5	TR2-D12316	12	1320		
9.0 ~ 14.0	7.5	5.5	TR2-D12316X	12			
12.0 ~ 18.0	12	9	TR2-D18321	18			
14.0 ~ 22.0	12	9	TR2-D18321X	18			
17.0 ~ 25.0	15	11	TR2-D25322	25			
23.0 ~ 32.0	20	15	TR2-D32353	32	1900	TA7-D3264 ₹ 270	
28.0 ~ 36.0	25	18	TR2-D32355				
23.0 ~ 32.0	20	15	TR2-D40353	40	2065	TA7-D4064 ₹ 900	
30.0 ~ 40.0	30	22	TR2-D40355				
37.0 ~ 50.0	35	25	TR2-D65357	50	2660		
48.0 ~ 65.0	40	30	TR2-D65359	65	3420		
55.0 ~ 70.0	50	37	TR2-D65361				
63.0 ~ 80.0	60	45	TR2-D80363	80	3775		
80.0 ~ 93.0	65	49	TR2-D95365	95	3800		
Independent Mounting							
65 ~ 105	75	55	LR1-F105	-	6190	-	1
80 ~ 125	80	59	LR1-F125				
100 ~ 160	110	80	LR1-F160				
125 ~ 200	135	100	LR1-F200				
160 ~ 250	175	129	LR1-F250				
200 ~ 315	220	160	☒ LR1-F315		7945		
250 ~ 400	270	200	☒ LR1-F400				
315 ~ 500	350	257	☒ LR1-F500				
400 ~ 630	480	355	☒ LR1-F630				
500 ~ 800	580	425	☒ LR1-F800				
630 ~ 1000	680	500	☒ LR1-F1000				

Thermal Overload Relays Protective Shroud for LR1-F105~630

Relay Type	Reference	MRP (₹)	Std. Pkg. (Nos.)
LR1-F105	LA9-F702	1345	1
LR1-F125			
LR1-F160			
LR1-F200			
LR1-F250	LA9-F703	1775	
LR1-F315			
LR1-F400			
LR1-F500			
LR1-F630	LA9-F704	1925	
LR1-F800			

Heavy Duty Overload Relays Independent Mounting Trip class 30

Relay Setting Range (Amps)	Reference	MRP (₹)	Std. Pkg. (Nos.)
2.5-4.0	TR6 - F4	8590	1
4.0-6.3	TR6 - F6.3		
6.3-10	TR6 - F10		
8.0-12.5	TR6 - F12.5		
10-16	TR6 - F16		
16-25	TR6 - F25		
25-40	☒ TR6 - F40		
40-63	☒ TR6 - F63		
63-100	☒ TR6 - F100		
100-160	☒ TR6 - F160		
125-200	☒ TR6 - F200		
160-250	☒ TR6 - F250		
250-400	☒ TR6 - F400		

☒ Non Stockable item

Accessories for robusTa & Exceed Contactors

Add-On Block for Contactor Rating 9A~800A				
Contact Configuration		Reference	MRP (₹)	Std. Pkg. (Nos.)
Front Mounted	1 NO	TA1-DN10*	130	10
	1 NC	TA1-DN01		
	2 NO	TA1-DN20		
	1 NO+1 NC	TA1-DN11	265	20
	2 NC	TA1-DN02		
	4 NO	TA1-DN40		
	3 NO+1 NC	TA1-DN31	400	20
	2 NO+2 NC	TA1-DN22		
	1 NO+3 NC	TA1-DN13		
	4 NC	TA1-DN04		
Side Mounted	1 NO+1 NC	TA8-DN11**	400	10
	2 NO	TA8-DN20		

* Suitable for robusTa Contactor rating 25~95A only.

** Suitable for robusTa Contactor rating 9~95A only.

Spare AC Coils Control Relay & Contactor 9A~95A				
Use for Contactor AC	Reference	MRP (₹)	Std. Pkg. (Nos.)	
TCA2-DN	TX1-D2 ■	425	20	10
TC1-D09				
TC1-D12				
TC1-D18				
TC1-D25	TX1-D4 ■	495	10	10
TC1-D32				
TC1-D40				
TC1-D50	TX1-D6 ■	1300	10	10
TC1-D63				
TC1-D80				
TC1-D95				

Spare DC Coils Control Relay & Contactor 9A~80A				
Use for Contactor DC	Reference		MRP (₹)	Std. Pkg. (Nos.)
	Normal	Wideband		
TCA3 - DN	TX4-D2 ■	TX5-D2 ■	665	1
TP1 - D09				
TP1 - D12				
TP1 - D18				
TP1 - D25	TX4-D4 ■	TX5-D4 ■	745	1
TP1 - D32				
TP1 - D40				
TP1 - D50	TX4-D40 ■	TX5-D40 ■	1150	1
TP1 - D65				
TP1 - D80				
TP1 - D80	TX4-D80 ■	TX5-D80 ■	3600	1

■ Complete the code for Spare Coil by indicating the Coil Voltage required after the reference *Please refer page no. 73 for Coil Voltage available

☒ Non Stockable item

Mechanical Interlocks - Horizontal Mounted				
Contact Configuration		Reference	MRP (₹)	Std. Pkg. (Nos.)
AC	DC			
TC1-D09	TP1-D09	LA9-D09978	390	10
TC1-D12	TP1-D12			
TC1-D18	TP1-D18			
TC1-D25	TP1-D25			
TC1-D32	TP1-D32			
TC1-D40	TP1-D40	LA9-D50978	930	10
TC1-D50	TP1-D50			
TC1-D65	TP1-D65			
TC1-D70	TP1-D70			
TC1-D80	TP1-D80	LA9-D80978	1270	10
TC1-D95	-			

Pneumatic Timer Block - Front Mounted				
Contact Configuration		Reference	MRP (₹)	Std. Pkg. (Nos.)
ON delay	1 NO+1 NC	TA2-DT0	0.1...3s	10
ON delay	1 NO+1 NC	TA2-DT2	0.1...30s	
ON delay	1 NO+1 NC	TA2-DT4	10...180s	
OFF delay	1 NO+1 NC	TA3-DR0	0.1...3s	10
OFF delay	1 NO+1 NC	TA3-DR2	0.1...30s	
OFF delay	1 NO+1 NC	TA3-DR4	10...180s	
Star Delta	1 NO+1 NC	TA2-DS2	1...30s	10

Coil Surge Suppressor for Contactor 9~95A				
Description	Voltage Ratings	Reference	MRP (₹)	Std. Pkg. (Nos.)
Varistor (AC/DC) Clip-on mounting	24~48VAC/DC	TA9AMOV980E	400	10
	110~240V AC/DC	TA9AMOV980U		
RC Circuit (AC) Clip-on mounting	24~48V AC	TA9RC980E		
	110~240V AC	TA9RC980U		
	380~440V AC	TA9RC980N		

Electrical & Mechanical Interlocks - Horizontal Mounted				
Use for Contactor		Reference*	MRP (₹)	Std. Pkg. (Nos.)
AC	DC			
TC1-D09	TP1-D09	ELA9-D09978	400	10
TC1-D12	TP1-D12			
TC1-D18	TP1-D18			
TC1-D25	TP1-D25			
TC1-D32	TP1-D32			
TC1-D40	TP1-D40	ELA9-D50978	1045	
TC1-D50	TP1-D50			
TC1-D65	TP1-D65			
TC1-D80	TP1-D80	ELA9-D80978	1275	
TC1-D95	-			



Accessories

Spare AC Coils for Hoisting Power Contactor

Contactor	110V	220V	240V	415V	MRP (₹)
LC1-FDP115HCA	LX9FF110V	LX9FF220V	LX9FF240V	-	2790
LC1-FDP150HCA					
LC1-FDP185HCA	LX9FG110V	LX9FG220V	LX9FG240V	-	4095
LC1-FDP225HCA					
☒ LC1-FDP265HCA	LX9FH1102V	LX9FH2202V	LX9FH2402V	-	4440
☒ LC1-FDP330HCA					
☒ LC1-FDP400HCA	LX9FJ925	LX9FJ931	LX9FJ932	LX9FJ936	9055
☒ LC1-FDP500HCA	LX9FK925	LX9FK931	LX9FK932	LX9FK936	15310
☒ LC1-FDP630HCA	LX9FL924	LX9FL930	LX9FL931	LX9FL936	15405

NOTE: The above Coil includes rectifier price. Standard Packing 1 No.

Spare AC Coils for Contactors Rating 115-800A

Contactor	110V	220V	240V	415V	MRP (₹)
LC1-FDP115	LX1FF-110V	LX1FF-220V	LX1FF-240V	LX1FF-415V	2115
LC1-FDP150					
LC1-FDP185					
LC1-FDP200	LX1FG-110V	LX1FG-220V	LX1FG-240V	LX1FG-415V	3800
LC1-FDP225					
LC1-FDP265A					
LC1-FDP300A	LX1FH-1102V	LX1FH-2202V	LX1FH-2402V	LX1FH-4152V	4440
LC1-FDP330A					
LC1-FDP400A	LX1FJ-110V	LX1FJ-220V	LX1FJ-240V	LX1FJ-415V	5935
LC1-FDP500A	LX1FK-110V	LX1FK-220V	LX1FK-240V	LX1FK-415V	13845
LC1-FDP630A	LX1FL-110V	LX1FL-220V	LX1FL-240V	LX1FL-415V	13680
LC1-FDP780A	LX1FX-110V	LX1FX-220V	LX1FX-240V	LX1FX-415V	34200
LC1-FDP800A	LX4F8FW	LX4F8MW	LX4F8MW	LX4F8QW*	15010

AC Coils will be suitable for 50Hz only. *Available in 380/400V only

NOTE: The above Coil includes rectifier price. Std. Packing 1 Nos.

Mechanical Interlocks for Contactor 115A-630A Vertically / Horizontally Mounted

Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
Horizontally Mounted			
LC1-FDP115A	LA9-FF970	2570	1
LC1-FDP150A			
LC1-FDP185A	LA9-FG970	2870	1
LC1-FDP200A			
LC1-FDP225A			
LC1-FDP265A	☒ LA9-FJ970	3330	1
LC1-FDP300A			
LC1-FDP330A			
LC1-FDP400A			
LC1-FDP500A			
LC1-FDP500A/LC1-F630A	☒ LA9-FL970		1
Vertically Mounted			
LC1-FDP115A	LA9-FF4F	2900	1
LC1-FDP150A			
LC1-FDP185A	LA9-FG4G	3060	1
LC1-FDP200A			
LC1-FDP225A			
LC1-FDP265A	LA9-FH4H	3760	1
LC1-FDP300A			
LC1-FDP330A			
LC1-FDP400A			
LC1-FDP500A	☒ LA9-FJ4J		
LC1-FDP500A	☒ LA9-FK4K		
LC1-FDP500A/LC1-F630A	☒ LA9-FL4L		
LC1-FDP780A	☒ LA9-FX970	24040	1

☒ Non Stockable item

Spare DC Coils for Contactors Rating 115A-800A

Contactor	110V	220V	24V	485V	MRP (₹)
LC1-FDP115	LX4FF-110V	LX4FF-220V	LX4FF-24V	LX4FF-48V	6920
LC1-FDP150					
LC1-FDP185	LX4FG-110V	LX4FG-220V	LX4FG-24V	LX4FG-48V	8870
LC1-FDP225					
LC1-FDP265A	LX4FH-110V	LX4FH-220V	LX4FH-24V	LX4FH-48V	10870
LC1-FDP330A					
☒ LC1-FDP400A	LX4FJ-110V	LX4FJ-220V	Not Available	LX4FJ-48V	17310
☒ LC1-FDP500A	LX4FK-110V	LX4FK-220V	Not Available	LX4FK-48V	18330
☒ LC1-FDP630A	LX4FL-110V	LX4FL-220V	Not Available	LX4FL-48V	21450
☒ LC1-FDP780A	•	LX4FX-220V	•	•	20480
☒ LC1-FDP800A	LX4F8FW	LX4F8MW	-	LX4F8QW*	18330

NOTE: The above Coil includes rectifier price. Standard Packing 1 No.

• Contact Branch Office for product code. *Available in 380/400V only.

Spare Top Housing for 3P/4P robusta Contactors

For Control Relay Contactor	Reference		MRP (₹)	Std. Pkg. (Nos.)
	AC	DC		
For 3 Pole				
TCA2-DN40, TCA3-DN40	TA5-DN40	TA5-DN40 DC	760	1
TCA2-DN31, TCA3-DN31	TA5-DN31	TA5-DN31 DC		
TCA2-DN22, TCA3-DN22	TA5-DN22	TA5-DN22 DC		
TC1-D0910, TP1-D0910	TA5-D0910	TA5-D0910 DC		
TC1-D0901, TP1-D0901	TA5-D0901	TA5-D0901 DC		
TC1-D1210, TP1-D1210	TA5-D1210	TA5-D1210 DC		
TC1-D1201, TP1-D1201	TA5-D1201	TA5-D1201 DC	880	1
TC1-D1810, TP1-D1810	TA5-D1810	TA5-D1810 DC		
TC1-D1801, TP1-D1801	TA5-D1801	TA5-D1801 DC		
TC1-D2210, TP1-D2210	TA5-D2210	TA5-D2210 DC	1080	1
TC1-D2201, TP1-D2201	TA5-D2201	TA5-D2201 DC	1150	1
TC1-D2510, TP1-D2510	TA5-D2510	TA5-D2510 DC		
TC1-D2501, TP1-D2501	TA5-D2501	TA5-D2501 DC	2110	1
TC1-D3210, TP1-D3210	TA5-D3210	TA5-D3210 DC		
TC1-D3201, TP1-D3201	TA5-D3201	TA5-D3201 DC	3050	1
TC1-D3810, TP1-D3810	TA5-D3810	TA5-D3810 DC		
TC1-D3801, TP1-D3801	TA5-D3801	TA5-D3801 DC	3160	1
TC1-D4011, TP1-D4011	TA5-D4011	TA5-D4011 DC	3920	
TC1-D5011, TP1-D5011	TA5-D5011	TA5-D5011 DC	5200	
TC1-D6511, TP1-D6511	TA5-D6511	TA5-D6511 DC	5780	
TC1-D7011, TP1-D7011	TA5-D7011	TA5-D6511 DC	6390	
TC1-D8011, TP1-D8011	TA5-D8011	TA5-D8011 DC	7440	
TC1-D9511	TA5-D9511	-		
For 4 Pole				
TC1-D09004, TP1-D09004	TA5-D09004	TA5-D09004DC	950	1
TC1-D09008, TP1-D09008	TA5-D09008	TA5-D09008DC	1050	
TC1-D12004, TP1-D12004	TA5-D12004	TA5-D12004DC	1100	
TC1-D12008, TP1-D12008	TA5-D12008	TA5-D12008DC	1180	
TC1-D25004, TP1-D25004	TA5-D25004	TA5-D25004DC	1680	
TC1-D25008, TP1-D25008	TA5-D25008	TA5-D25008DC	1940	
TC1-D40004, TP1-D40004	TA5-D40004	TA5-D40004DC	3560	
TC1-D40008, TP1-D40008	TA5-D40008	TA5-D40008DC	4550	
TC1-D65004, TP1-D65004	TA5-D65004	TA5-D65004DC	6050	
TC1-D65008, TP1-D65008	TA5-D65008	TA5-D65008DC	7090	
TC1-D80004, TP1-D80004	TA5-D80004	TA5-D80004DC	7220	

Accessories

Spare Top Housing for 3P exceeD Contactors			
For Control Relay Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
	AC		
TCA2-DN40E	TA5-DN40E	600	1
TCA2-DN31E	TA5-DN31E		
TCA2-DN22E	TA5-DN22E		
TC1D0901E	TA5-D0901E		
TC1D0910E	TA5-D0910E		
TC1D1201E	TA5-D1201E		
TC1D1210E	TA5-D1210E		
TC1D1801E	TA5-D1801E	700	
TC1D1810E	TA5-D1810E		
TC1D2501E	TA5-D2501E	850	
TC1D2510E	TA5-D2510E		
TC1D4011E	TA5-D4011E	2190	
TC1D5011E	TA5-D5011E	3000	
TC1D6511E	TA5-D6511E	4200	
TC1D8011E	TA5-D8011E	5490	
TC1D9511E	TA5-D9511E	6000	

Spare Main Contact for 3P Contactors rating 115A-800A			
Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
LC1-FDP115A	LA5-FF431 (F115)	7410	1
LC1-FDP150A	LA5-FF431 (F150)	10240	
LC1-FDP185A	LA5-FG431 (F185)	12820	
LC1-FDP200A	LA5-FG431 (F200)	15060	
LC1-FDP225A	LA5-FG431 (F225)	16880	
LC1-FDP265A	LA5-FH431 (F265)	17990	
LC1-FDP300A	LA5-FH431 (F300)	18790	
LC1-FDP330A	LA5-F400803 (F330)	20190	
LC1-FDP400A	LA5-F400803 (F400)	25350	
LC1-FDP500A	LA5-F500803 (F500)	33640	
LC1-FDP630A	LA5-F630803 (F630)	47780	
LC1-FDP780A	LA5F780801(F7804)*	26880	
LC1-FDP800A	LA5F800803(F800)	53630	

Spare Main Contact Sets for 4P Power Contactors rating 115A-780A			
Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
LC1-FDP1154A	LA5-FF441 (F1154)	8640	1
LC1-FDP1504A	LA5-FF441 (F1504)	12860	
LC1-FDP1854A	LA5FG441(F1854)	18970	
LC1-FDP2254A	LA5FG441(F2254)	19820	
LC1-FDP2654A	LA5-FH441 (F2654)	21200	
LC1-FDP3304A	LA5-F400804 (F3304)	25650	
LC1-FDP4004A	LA5-F400804 (F4004)	29170	
LC1-FDP5004A	LA5-F500804 (F5004)	46020	
LC1-FDP6304A	LA5-F630804 (F6304)	58950	
LC1-FDP7804A	LA5-F780801 (F780)**	26530	

Main Contacts set per pole includes (2 Fixed Contacts & Moving Contact, 2 Deflectors, 1 Backplate, Fixing Screws and Washers).

* Main Contacts are for one pole only. (Set of two) Order 3 Nos for 3 pole Contactors & 4 Nos for 4 pole Contactors.

** Set of Main Contacts provided is 1 set of 2 blocks for one pole.

☒ Non Stockable item

Spare Main Contacts for 3P Hoisting Contactors rating 115A-630A			
Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
LC1-FDP115HCA	LA5-FF431HCA (F115)	7460	1
LC1-FDP150HCA	LA5-FF431HCA (F150)	10290	
LC1-FDP185HCA	LA5-FG431HCA (F185)	12820	
LC1-FDP200HCA	LA5-FG431HCA (F200)	15060	
LC1-FDP225HCA	LA5-FG431HCA (F225)	16880	
LC1-FDP265HCA	LA5-FH431HCA (F265)	17990	
LC1-FDP300HCA	LA5-FH431HCA (F300)	18790	
LC1-FDP330HCA	LA5-F400803HCA (F330)	20190	
LC1-FDP400HCA	LA5-F400803HCA (F400)	25350	
LC1-FDP500HCA	LA5-F500803HCA (F500)	33640	
LC1-FDP630HCA	LA5-F630803HCA (F630)	47780	

Spare Arc Chamber 3P			
Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
LC1-FDP115A	LA5-F11550	2140	1
LC1-FDP150A	LA5-F15050		
LC1-FDP185A	LA5-F18550	2290	
LC1-FDP200A	LA5-F20050	2320	
LC1-FDP225A	LA5-F22550	2340	
LC1-FDP265A	LA5-F26550	2560	
LC1-FDP300A	LA5-F30050	3220	
LC1-FDP330A	LA5-F33050	3450	
LC1-FDP400A	LA5-F40050	3700	
LC1-FDP500A	LA5-F50050	4110	
LC1-FDP630A	LA5-F63050	9540	
LC1-FDP780A	LA5-F780150*	7000	

Spare Arc Chamber 4P			
Contactor	Reference	MRP (₹)	Std. Pkg. (Nos.)
LC1-FDP1154A	LA5-F115450	2190	1
LC1-FDP1504A	LA5-F150450		
LC1-FDP1854A	LA5-F185450	3090	
LC1-FDP2254A	LA5-F225450	3250	
LC1-FDP2654A	LA5-F265450	3850	
LC1-FDP3304A	LA5-F330450	4070	
LC1-FDP4004A	LA5-F400450	5060	
LC1-FDP5004A	LA5-F500450	5820	
LC1-FDP6304A	LA5-F630450	11650	
LC1-FDP7804A	LA5-F780150*	7400	
LC1-FDP8004A	LA5-F80050	11700	

Main Contacts set per pole includes (2 Fixed Contacts & Moving Contact, 2 Deflectors, 1 Backplate, Fixing Screws and Washers).

* Main Contacts are for one pole only. (Set of two) Order 3 Nos for 3 pole Contactors & 4 Nos for 4 pole Contactors.

** Set of Main Contacts provided is 1 set of 2 blocks for one pole.

D Range Contactors & Overload Relays

GLOBAL CERTIFICATION



RoHS
Compliant

Control Relays 10 Amps

Contact Configuration	A.C. Reference	MRP (₹)	Std. Pkg. (Nos.)
2 NO+2 NC	CA2-DN1229 ■	875	1
3 NO+1 NC	CA2-DN1319 ■		
4 NO	CA2-DN140 ■		

■ Please specify Coil Voltage.



Power Contactors - 3 Pole, AC

Size	AC1 Duty A	AC3 415V Long Life			Auxiliary Contacts		Reference	MRP (₹)	Std. Pkg. (Nos.)
		KW	HP	A					
Frame 1	25	4	5.5	9	1NO	-	LC1-D093■	820	1
					-	1NC	LC1-D099■		
	25	5.5	7.5	12	1NO	-	LC1-D123■	930	
					-	1NC	LC1-D129■		
	32	9	12.5	16	1NO	-	LC1-D173■	1080	
					-	1NC	LC1-D179■		
Frame 2	40	11	15	25	1NO	-	LC1-D253■	1380	
					-	1NC	LC1-D259■		
	50	15	20	32	1NO	-	LC1-D323■	2965	
					-	1NC	LC1-D329■		
Frame 3	60	22	30	40	1NO	1NC	LC1-D403■	4140	
	80	25	35	50	1NO	1NC	LC1-D503■	5480	
	80	37	50	63	1NO	1NC	LC1-D633■	7075	
	125	45	60	80	1NO	1NC	LC1-D803■	8930	

Add-on-Blocks for D Range Contactors

Contactor			Reference	MRP (₹)	Std. Pkg. (Nos.)
Additional Instantaneous Aux.Contact Blocks	Front Mounted	2 NO	LA1-D20	265	20
		1 NO+1 NC	LA1-D11		
		2 NC	LA1-D02		
		4 NO	LA1-D40		
		3 NO+1 NC	LA1-D31	400	
		2 NO+2 NC	LA1-D22		
		1 NO+3 NC	LA1-D13		
		4 NC	LA1-D04		
Overlapping Aux. Contacts	Front Mounted	2 NO+2 NC	LA1-D1111#	580	10

Consisting of 1 NO+1 NC make before break contacts.

■ Please specify Coil Voltage by indicating the Coil Voltage required.

** Spare Moulded Base for these Coils has Product code LA7-D40 and unit price is ₹ 135

Thermal Overload Relays Type LR1 - Direct Mounting

Relay Setting Range A	Std. Power Rating for 3 Phase Motor at 415V		Reference	MRP (₹)	Independent Mounting Kit	Std. Pkg. (Nos.)		
	HP	KW						
0.10-0.16	*	*	LR1-D09301	1085	Reference LA7-D0964 MRP₹ 180	1		
0.16-0.25	*	*	LR1-D09302					
0.25-0.40	*	*	LR1-D09303					
0.40-0.63	*	*	LR1-D09304					
0.63-1.00	0.5	0.37	LR1-D09305					
1.00-1.60	0.75	0.55	LR1-D09306					
1.60-2.50	1.5	1.10	LR1-D09307					
2.50-4.00	2.00	1.50	LR1-D09308					
4.00-6.00	3.00	2.20	LR1-D09310					
5.50-8.00	5.00	3.70	LR1-D09312					
7.00-10.0	5.50	4.00	LR1-D09314	1305	Reference LA7-D3264 MRP ₹265			
10.0-13.0	7.50	5.50	LR1-D12316					
13.0-18.0	12.00	9.00	LR1-D16321	1865	Reference LA7-D4054 MRP ₹ 360			
18.0-25.0	15.00	11.00	LR1-D25322					
23.0-32.0	20.00	15.00	LR1-D32353	2055				
28.0-40.0	20.00	15.00	LR1-D32355					
23.0-32.0	20.00	15.00	LR1-D40353	2375				
30.0-40.0	30.00	22.00	LR1-D40355					
38.0-50.0	35.00	25.00	LR1-D63357	2375				
48.0-57.0	40.00	30.00	LR1-D63359	3375				
57.0-66.0	50.00	37.00	LR1-D63361	3705				

* There is no standard power rating for these motors. Select the overload relay in relation to the full load current.

AC Coil Voltage Codes for D Range Contactors (Standard)

Contactor	Voltage					
	24	48	110*	220*	240*	415*
LC1-D	B	E	F	M	U	N

* Wide band Coils

AC Coil Voltage Codes for D Range Contactors (Non-Standard)

Contactor	Voltage		
	42	360	380
LC1-D	D	UW	Q

For Non-Standard Coil Voltage, please add ₹ 100/- in the list price.

Thermal Overload Relays Type LR1 - Independent Mounting

Relay Setting Range A	Std. Power Rating for 3 Phase Motor at 415V		Reference	MRP (₹)	Std. Pkg. (Nos.)
	HP	KW			
66.0 to 80.0	60	45	LR1-D80363	3725	1

Spare AC Coil Voltage for D Range Contactors AC (Standard)

Use for Contactor AC (Standard)	Reference	MRP (₹)	Std. Pkg. (Nos.)
CA2-DN1	LX1-D09 ■	415	15
LC1-D09			
LC1-D12			
LC1-D17			
LC1-D25	LX1-D25 ■	485	10
LC1-D32			
LC1-D40			
LC1-D50**	LX1-D40 ■	1220	1
LC1-D63			
LC1-D80**			

Accessories

D Range Mechanical Interlocks Horizontally Mounted			
Use for Contactor AC	Reference	MRP (₹)	Std. Pkg. (Nos.)
LC1-D09	LA9-D09978	390	10
LC1-D12			
LC1-D17			
LC1-D25			
LC1-D32			
LC1-D40	LA9-D50978	930	
LC1-D50			
LC1-D63			
LC1-D80	LA9-D80978	1265	

Coil Suppressor			
Description	Reference	MRP (₹)	Std. Pkg. (Nos.)
For mounting across coil of contactor upto 80Amp, with RC network suitable for <250VAC & <400V AC	LA9-D09980	415	10

Mechanical Latching Blocks			
Description for Contractors/ Control Relays Type	Reference	MRP (₹)	Std. Pkg. (Nos.)
CA2-DN1 LC1-D09, LC1-D12 LC1-D17, LC1-D25, LC1-D32	LA6-DK01	1705	10

- Replace by voltage code AC
- Not suitable for DC control relay & DC Contactor



Spare Top Housing 3P			
For Control Relay/ Contactor AC	Reference	MRP (₹)	Std. Pkg. (Nos.)
CA2-DN140	LA5-DN140	720	1
CA2-DN1319	LA5-DN1319		
CA2-DN1229	LA5-DN1229		
LC1-D093	LA5-D093		
LC1-D099	LA5-D099		
LC1-D123	LA5-D123	810	
LC1-D129	LA5-D129		
LC1-D173	LA5-D173	870	
LC1-D179	LA5-D179		
LC1-D253	LA5-D253	1145	
LC1-D259	LA5-D259		
LC1-D323	LA5-D323	2285	
LC1-D329	LA5-D329		
LC1-D403	LA5-D403	3505	
LC1-D503	LA5-D503	4295	
LC1-D633	LA5-D633	5545	
LC1-D803	LA5-D803	7220	

Add-on Starting Switch			
Description	Reference	MRP (₹)	Std. Pkg. (Nos.)
NO starting Switch suitable for direct mounting on Control Relays & Contactors	LA9-D09906	140	10



AC Coil Voltage Codes (Standard)

For Mechanical Latching Block	Voltage							
	24	48	72	110	220	240	380	415/440
LA6-DK01	B	E	EN	F	M	U	Q	N

Definite Purpose Contactor

FLA	Resistive AMP Rating	Reference	MRP (₹)	Std. Pkg. (Nos.)
Single Pole (Without Shunt)				
25	30	TCDP251*	590	1
30	40	TCDP301*	640	
40	50	TCDP401*	650	
Single Pole (With Shunt)				
25	30	TCDP251S*	620	1
30	40	TCDP301S*	680	
40	50	TCDP401S*	720	
Two Pole				
20	30	TCDP202*	685	1
30	40	TCDP302*	720	
40	50	TCDP402*	770	
20	30	TCDP203*	865	

AC Coil Voltage Codes for Definite Purpose Contactors

Voltage	24VAC	110VAC	240VAC
50Hz	B5	G5	U5
60Hz	B6	G6	U6

☒ Non Stockable item

Contactors - 4 Pole, AC



AC3, 415V			Main Poles Configuration	Reference	MRP (₹)	Std. Pkg. (Nos.)
kW	HP	A				
7.5	10	20	4NO	TC1DX204■	1510	1
11	15	25	4NO	TC1DX254■	2230	
22	30	40	4NO	TC1DX404■	3890	

■ Please specify Coil Voltage.

AC Coil Voltage Codes (Standard) for 4 Pole Contactors

Contactor 4P	Voltage			
	110	220	190~400	250~450
TC1-DX204/254	F	M	Q	N

Spare Coil for 4 Pole Contactors

Reference	Coil Voltage	MRP (₹)	Std. Pkg. (Nos.)
TX1D20■	110/220/190~400/250~450	260	1

Spare Contact Kit for 4 Pole Contactor

Reference	Description	MRP (₹)	Std. Pkg. (Nos.)
TA5DX204	20A Contact Kit, 4-Pole	620	1
TA5DX254	25A Contact Kit, 4-Pole	1120	
TA5DX404	40A Contact Kit, 4-Pole	1850	

Add-on-Blocks for 4 Pole Contactors

Description	Contact Configuration	Reference	MRP (₹)	Std. Pkg. (Nos.)
Front mounted Aux. contact Block	NO+1NC	TA1-DN11A	175	2

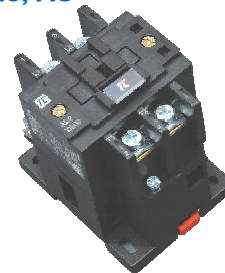
Mechanical Interlock for 4 Pole Contactors

Description	Reference	MRP (₹)	Std. Pkg. (Nos.)
Horizontal Mounted	LA9-D09978	360	10

Thermal Overload Relays 3 Pole type LR3D - Direct Mounting

Relay Setting Range (A)	Reference	MRP (₹)	Std. Pkg. (Nos.)
1.60~2.50	LR3D09307	1000	1
2.50~4.00	LR3D09308		
4.00~6.00	LR3D09310		
5.50~8.00	LR3D09312		
7.00~10.0	LR3D09314		
9.0~14.0	LR3D12316X	1080	
13.0~18.0	LR3D16321	1110	
14.0~22.0	LR3D16321X		
18.0~25.0	LR3D25322		

Contactors - 2 Pole, AC



AC1 Duty	AC3 220V AC	Reference	MRP (₹)	Std. Pkg (Nos.)
	A			
32	20	AC2-D202■	765	2
40	25	AC2-D252■	1030	
40	40	AC2-D402■	1430	

AC Coil Voltage Codes (Standard) for 2 Pole Contactors

Contactor 2P	Voltage		
	220*	220/240*	380 / 415*
AC2-D2/D3/D4	M5W	MU	QN

* Wide band Coils

■ Please specify Coil Voltage.

Spare Coil for 2 Pole Contactors

Reference	Coil Voltage	MRP (₹)	Std. Pkg. (Nos.)
AX1D2 MU	220/240V, 50Hz	225	5
AX1D2 M	220V, 50Hz		
AX1D2 QN	380/415V, 50Hz		
AX1D2 N	415V, 50Hz		

Spare Contact Kit for 2 Pole Contactor

Reference	Description	MRP (₹)	Std. Pkg. (Nos.)
AC5D202	20A Contact Kit, 2-Pole	360	1
AC5D252	25A Contact Kit, 2-Pole	750	
AC5D402	40A Contact Kit, 2-Pole	985	
AC5D2011	20A Contact Kit, 1NO+1NC	365	

Add-on-Blocks for 2 Pole Contactors

Description	Contact Configuration	Reference	MRP (₹)	Std. Pkg. (Nos.)
Front mounted Aux. contact Block	2 NO 1 NO+1 NC 2 NC	LA1-D20A	175	20
		LA1-D11A		
		LA1-D02A		

Thermal Overload Relays 2 Pole type LR7D - Direct Mounting

Relay Setting Range (A)	Reference	MRP (₹)	Independent Mounting Kit	Std. Pkg. (Nos.)
4.0-6.0	LR7-D09210	480	LA7D0964 MRP ₹180	1
5.5-8.0	LR7-D09212			
7.0-10	LR7-D09214			
9.0-14	LR7-D12216X			
13-18	LR7-D16221	550		
14-22	LR7-D16221X			
18-25	LR7-D25222			
23-32	LR7-D32253	690		