

STARTERS

DOL STARTERS -
MOULDED ENCLOSED

- Internal assembly DIN rail mount.
- Rigid plastic base.
- Increased internal dimensions to improve access and installation.
- Separate neutral and earth terminals.
- Knockout for additional pilot devices.
- All screws are x-head, one screwdriver needed to install.
- A comprehensive range of WF overloads is available to suit applications from 1.0A to 19A F.L.C. - see selection chart.
- IP66 rating.
- Manufactured to EN 60947-4-1/IEC 947-4-1 and EN 60204-1/ IEC 60204-1.

DOL STARTERS -
STEEL ENCLOSED

- Contactor overload assembly DIN rail mount.
- Quick release catches on enclosure.
- Top knockouts placed over incoming switch.
- Increased internal dimensions to improve access and installation.
- A comprehensive range of Alto overloads is available to suit applications from 1.0A to 19A F.L.C. - see selection chart.
- IP65 rating.
- Manufactured to EN 60947-4-1/IEC 947-4-1 and EN 60204-1/ IEC 60204-1.



SEE FOLLOWING PAGE FOR
OVERLOAD SELECTION

NEW DATACOMS CATALOGUE AVAILABLE

The new Datacoms catalogue includes virtually every type of product needed for most installations plus details of a new one day course to gain the all important certification.

The course covers all the crucial aspects of Cat 5E and Cat 6



MAXIMUM CONTACTOR RATING 75KW

COIL VOLTAGE

230V

400V

5.5KW

7.5KW

5.5KW

7.5KW

MOULDED

MOULDED

Price		Ref. No.	Price		Ref. No.
1	5+		1	5+	
49.45	47.60	AL3776	54.65	52.50	AL3778

Price		Ref. No.	Price		Ref. No.
1	5+		1	5+	
49.45	47.60	AL3777	54.65	52.50	AL3779

STAINLESS STEEL - WITHOUT ISOLATOR

STAINLESS STEEL - WITHOUT ISOLATOR

Price		Ref. No.	Price		Ref. No.
1	5+		1	5+	
65.65	63.15	AL3780	70.40	67.65	AL3782

Price		Ref. No.	Price		Ref. No.
1	5+		1	5+	
65.65	63.15	AL3781	70.40	67.65	AL3783

STAINLESS STEEL - WITH ISOLATOR

STAINLESS STEEL - WITH ISOLATOR

Price		Ref. No.	Price		Ref. No.
1	5+		1	5+	
153.95	148.05	AL3784	155.60	149.60	AL3786

Price		Ref. No.	Price		Ref. No.
1	5+		1	5+	
153.95	148.05	AL3785	155.60	149.60	AL3787

OVERLOAD SELECTION

3 PHASE MOTOR

SINGLE PHASE MOTOR

Full Load Current (Amps)		Approx Motor Rating AC3 400V/3P (kW) (hp)		Price		Ref. No.
Min	Max	(kW)	(hp)	1	5+	
1.0	1.4	0.37	0.55	35.85	34.45	AL3790
1.3	1.8	0.55	0.75	35.85	34.45	AL3791
1.7	2.4	0.75	1.0	35.85	34.45	AL3792
2.2	3.1	1.1	1.5	35.85	34.45	AL3793
2.8	4.0	1.5	2.0	35.85	34.45	AL3794
4.5	6.5	2.2	3.0	35.85	34.45	AL3795
6.0	8.5	2.2	3.0	38.00	36.60	AL3796
7.5	11	4.0	5.5	38.00	36.60	AL3797
10	14	5.5	7.5	41.30	39.70	AL3798
13	19	7.5	10	41.30	39.70	AL3799*

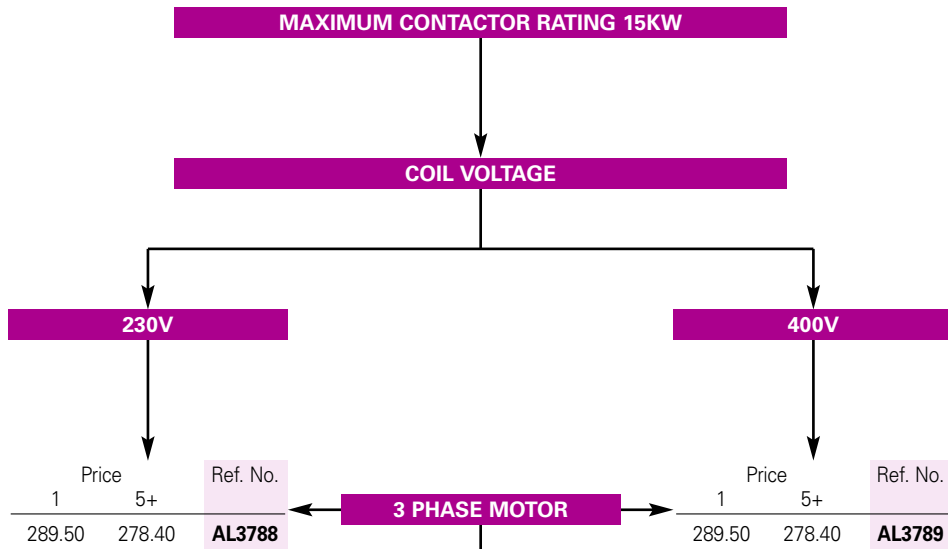
Full Load Current (Amps)		Approx Motor Rating 230V/Single Phase (kW) (hp)		Price		Ref. No.
Min	Max	(kW)	(hp)	1	5+	
1.3	1.8	0.07	0.09	35.85	34.45	AL3791
1.7	2.4	0.1	0.125	35.85	34.45	AL3792
2.2	3.1	0.18	0.25	35.85	34.45	AL3793
2.8	4.0	0.37	0.5	35.85	34.45	AL3794
4.5	6.5	0.55	0.75	35.85	34.45	AL3795
6.0	8.5	0.75	1.0	38.00	36.60	AL3796
7.5	11	1.5	2.0	38.00	36.60	AL3797
10	14	1.5	2.0	41.30	39.70	AL3798
13	19	2.2	3.0	41.30	39.70	AL3799*

* For use with 7.5kW only

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STAR - DELTA STARTER - SHEET STEEL ENCLOSED

- Offered in either 230v or 400v 50Hz coil voltage.
- Contactor layout gives easy access.
- The Alto range of thermal overloads can be fitted allowing operation from 1.3A to 19A in delta loop.
- Incoming terminals provided.
For clarity, all incoming and outgoing terminals are labelled.
- Top knockouts placed over incoming terminals.
- Quick release catches on enclosure.
- IP65.
- Manufactured to EN 60947-4-1/IEC 947-4-1 and EN 60204-1/ IEC 60204-1.



OVERLOAD SELECTION

Overload in Delta-loop 0.58 Of FLC (Amps)		Approx Motor Rating AC3 400V/3PH		Price		Ref. No.
Min	Max	(kW)	(hp)	1	5+	
1.3	1.8	1.1	1.5	35.85	34.45	AL3791
1.7	2.4	1.5	2.0	35.85	34.45	AL3792
2.2	3.1	2.2	3.0	35.85	34.45	AL3793
2.8	4.0	3.0	4.0	35.85	34.45	AL3794
4.5	6.5	4.0	5.5	35.85	34.45	AL3795
6.0	8.5	5.5	7.5	38.00	36.60	AL3796
7.5	11	7.5	10	38.00	36.60	AL3797
10	14	11	15	41.30	39.70	AL3798
13	19	15	20	41.30	39.70	AL3799

CONTACTORS

HEATING & LIGHTING CONTACTORS



- 100A AC1 range of enclosures fitted with a 230V 50Hz coil.
- Quick release catches.
- Complies with IEC947-4-1.
- Internal DIN rail mount.



	Max Load Rating	Type Heating A	Coil Voltage A	Price		Ref. No.
				1	5+	
2 Pole Contactor	15	25	230	67.30	64.70	AL3556
4 Pole Contactor	30	45	230	91.95	88.35	AL3557
3 Pole Contactor	40	63	230	194.85	187.35	AL3558
3 Pole Contactor	70	100	230	255.50	245.65	AL3559

STATIONS

CABLE JUNCTION BOXES



- Suitable for hazardous environments and supplied with terminals and sealing gasket.
- Rated IP65. (excluding AL2854 = IP54).



Poles x Max Conductor Size	Knockouts (mm)	External Size (mm)	Price		Ref. No.
			1	5+	
5 x 2.5mm	20	88 x 88 x 53	5.85	5.70	AL2847
10 x 2.5mm	25	98 x 98 x 61	19.20	18.50	AL2848
5 x 4mm	25	98 x 98 x 61	7.40	7.15	AL2849
5 x 6mm	25/32	138 x 119 x 70	12.00	11.45	AL2850
5 x 10mm	Note 1	117 x 125 x 82	19.05	18.35	AL2851
5 x 4mm	20	98 x 98 x 58	7.70	7.35	AL2852
5 x 16/25mm	Note 1	200 x 60 x 98	27.90	26.85	AL2853
5 x 2.5mm	Note 2	88 x 88 x 47	5.60	5.30	AL2854

Note 1: Plain Sides; Note 2: Neoprene Cable Seals

3 PHASE & NEUTRAL METAL ISOLATOR



- Polyester powder coated metal enclosure and 32A triple pole isolator with switched neutral.
- Complies with BS5419 and BSEN 60947-3.



	Price		Ref. No.
	1	5+	
32A TP & N Surface Metal Isolator	27.60	26.55	AL2779

JUNCTION BOXES



- Generous capacity slot terminals with large grub screws.
- Complies with BS6220.



Dia. mm	Terminals	Rating A	Cable Entry	Price		Ref. No.
				1	10+	
59	4	20	Knockout	1.55	1.40	AL0668
75	4	20	Knockout	1.75	1.70	AL0669
75	4	20	Selective	1.90	1.85	AL0670
86	3	30	Selective	1.90	1.85	AL0671
86	6	20	Selective	3.00	2.85	AL0672

ENCLOSED PUSH BUTTON STATIONS



- Polycarbonate, fitted with modular push buttons.
- Push button contacts maximum 10A.
- Rated IP65.



	Button Size (mm)	Contacts	Price		Ref. No.
			1	5+	
Single Station Stop	37	1 NC	31.50	30.25	AL4328
Emergency Stop	40	1 NC	38.40	37.00	AL4344
Enclosed Stop	50	1 NC	39.40	37.85	AL4329
Mushroom Head					
Emergency Stop c/w Key Release	37	1 NC	42.45	40.75	AL4317
Enclosed Start	N/A	1 NO	24.25	23.30	AL4326
Enclosed Start/Stop	N/A	1 NO	36.00	34.60	AL4327
Enclosed 2 Position Key Switch	N/A	1 NO	39.20	37.70	AL4318
Additional Push Button Contact, 1 Normally Open	N/A	1 NO	6.50	6.30	AL4325
Additional Push Button Contact, 1 Normally Closed	N/A	1 NC	6.50	6.30	AL4319

ENCLOSURES

MOULDED ENCLOSURES & MOUNTING PLATES



- RAL 7035 Grey.
- Watertight moulded enclosures.
- For heavy duty applications.
- Rated IP56.
- Complies with IEC670.
- IK9 impact resistance.



Size (mm)	Price		Ref. No.
	1	5+	
Enclosures			
100 x 100 x 60	2.75	2.70	AL2834
120 x 80 x 60	3.25	3.10	AL2835
150 x 110 x 60	4.30	4.15	AL2836
190 x 140 x 70	8.25	7.95	AL2837
240 x 190 x 90	13.10	12.55	AL2838
220 x 150 x 150	17.80	17.00	AL2839
300 x 220 x 120	22.85	22.00	AL2840
380 x 300 x 120	32.20	31.00	AL2841
Mounting Plates			
190 x 140 for use with AL2837	3.55	3.40	AL2842
240 x 190 for use with AL2838	4.70	4.50	AL2843
220 x 150 for use with AL2839	4.30	3.95	AL2844
300 x 220 for use with AL2840	6.00	5.80	AL2845
380 x 300 for use with AL2841	11.10	10.65	AL2846

STAINLESS STEEL EMERGENCY STOP STATION ENCLOSURE



- Suitable for the food or chemical industry.
- One normally closed contact fitted.
- Complies with IEC947-5-1 and EN418,
- Rated IP65.



	Price		Ref. No.
	1	5+	
Emergency Stop Push Button	84.30	81.10	AL4339
Additional Push Button Contact, 1 Normally Open	6.50	6.30	AL4325
Additional Push Button Contact, 1 Normally Closed	6.50	6.30	AL4319

METAL ENCLOSURES & MOUNTING PLATES



- Manufactured from 1.2mm sheet steel c/w gasket and gutter.
- Rated IP66.
- Galvanised steel chassis plate included.



Size (mm)	Weight (kg)	Locks	Price		Ref. No.
			1	3+	
300 x 250 x 150	4.2	1	61.90	59.60	AL5820
300 x 300 x 200	7.2	1	73.20	70.35	AL5414
400 x 300 x 200	6.8	1	84.45	81.15	AL5821
400 x 400 x 200	10.2	1	96.20	92.40	AL5419
500 x 400 x 250	11.0	2	119.30	114.75	AL5822
500 x 500 x 250	15.6	2	145.30	139.75	AL5425
600 x 400 x 200	13.9	2	116.85	112.40	AL5823
600 x 600 x 250	23.7	2	165.40	158.95	AL5426
800 x 600 x 300	26.3	2	235.80	226.65	AL5824
Replacement Lock and Key			10.70	10.35	AL5830
Wall Bracket			7.60	7.35	AL5831

GRP ENCLOSURES



- Glass fibre reinforced polyester.
- Rated IP66.
- Galvanised steel chassis plate included.



Size (mm)	Weight (kg)	Price		Ref. No.
		1	3+	
310 x 215 x 160	1.9	70.85	68.05	AL2828
430 x 330 x 200	5.9	117.15	112.60	AL2829
530 x 430 x 200	8.8	156.45	150.40	AL2830
647 x 436 x 250	11.5	179.00	172.05	AL2831
747 x 536 x 300	16.7	258.80	248.85	AL2832
847 x 636 x 300	24.8	290.75	279.60	AL5427
Replacement Lock and Key		16.40	15.75	AL2833
Wall Bracket for AL2828		10.70	10.35	AL5552
Wall Bracket for Others		10.70	10.35	AL5556

SAME DAY/NEXT DAY DELIVERY ON EVERY PRODUCT IN THIS CATALOGUE



Place your order by 5:30pm at your local WF branch and it will be delivered to your chosen location next day.

DIN RAILS

32mm G RAIL MOUNTED TERMINAL PACKS



- Thermoplastic insulating material.
- Terminal Packs for TS32 Din Rail.
- UL 94 V2 flammability rating.



	Pack Contents		Price		Ref. No.
	Terminals	Earth Terminals	Per Pack 1	Per Pack 5+	
2.5mm Terminal Kits	10	-	17.00	16.30	AL2923
2.5mm Terminal Kits	10	2	17.30	16.55	AL8115
4mm Earth Terminal Kits	-	10	52.00	50.00	AL2921

35mm TOP HAT RAIL MOUNTED TERMINAL PACKS

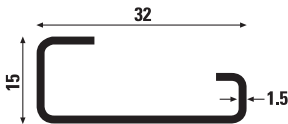


- Wemid insulating material.
- 100% vibration proof.
- Terminal Packs for TS35 Din Rail.
- UL 94 V2 flammability rating.



	Pack Contents		Price		Ref. No.
	Terminals	Earth Terminals	Per Pack 1	Per Pack 5+	
2.5mm Terminal Kits	10	-	16.20	15.55	AL2924
4mm Terminal Kits	10	-	15.25	14.65	AL8118
2.5mm Terminal Kits	10	2	15.90	15.25	AL8117
4mm Earth Terminal Kits	-	10	47.20	45.40	AL2922

32mm G DIN RAILS



- Manufactured from cold roller steel and zinc plate passivated.
- Complies with DIN46277-1 and EN 50035.



	Length (m)	Price		Ref. No.
		1	10+	
Unslotted TS32 Din Rail	0.5	3.25	3.15	AL2919
Unslotted TS32 Din Rail	2	7.80	7.45	AL8100
Slotted TS32 Din Rail	2	10.50	10.15	AL8101

32mm TOP HAT DIN RAILS



15 x 5mm - Profile A

35 x 7.5mm - Profile B

35 x 16mm - Profile C

- Manufactured from cold roller steel and zinc plate passivated.
- Profile A complies with DIN46277-2 and EN 50045.
- Profile B & C complies with DIN46277-3 and EN 50022.



	Profile	Length (m)	Price		Ref. No.
			1	5+	
Slotted TS15 Din Rail	A	2	10.90	10.40	AL8103
Unslotted TS35 Din Rail	B	0.5	3.10	2.85	AL2920
Unslotted TS35 Din Rail	B	2	6.15	5.95	AL8104
Slotted TS35 Din Rail	B	2	6.80	6.60	AL8105
Unslotted TS35 Din Rail	C	2	18.15	17.50	AL8106
Slotted TS35 Din Rail	C	2	17.75	17.00	AL8107

DIN RAIL SUPPORT



- To fit all din rails.
- 35° mounting angle.



	Price		Ref. No.
	1	5+	
Din Rail Angled Support Bracket	2.40	2.35	AL8110

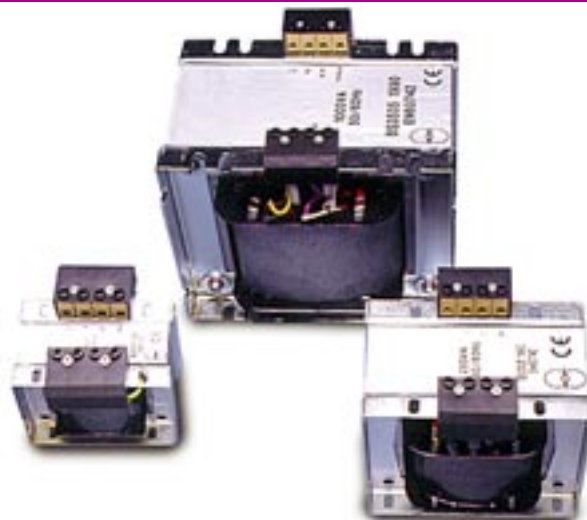
WE STOCK A FULL RANGE OF TERMINALS, PLATES AND CONNECTORS FOR DIN RAIL. PLEASE CONTACT YOUR LOCAL BRANCH FOR FURTHER DETAILS.

YOUR ACCOUNT IS AUTOMATICALLY VALID AT EVERY WF BRANCH

Your account together with all your commercial terms is automatically valid at every one of our branches nationwide.



PANEL TRANSFORMERS



- Transformers have either a 230/240v or 400/415/440v primary tapping suitable for British and European mains voltages.
- Complies with BS3535 and BSEN 60742.
- Covered terminal blocks.
- A thermal fuse is incorporated into the primary winding providing the necessary protection against temperature rise and nuisance tripping.



	Primary Voltage	Secondary Voltage	Price		Ref. No.
			1	5+	
50VA	230	24	35.60	34.20	AL2859
50VA	400	24	35.60	34.20	AL2860
100VA	230	24	40.90	39.35	AL2863
100VA	400	24	40.90	39.35	AL2864
150VA	230	24	50.75	48.80	AL2867
250VA	230	24	69.90	67.20	AL2871
500VA	400	24	94.65	91.05	AL2876
50VA	400	110	36.10	34.70	AL2861
50VA	230	110	36.10	34.70	AL2862
100VA	400	110	39.05	37.50	AL2865
100VA	230	110	41.60	40.00	AL2866
150VA	400	110	52.40	50.40	AL2869
150VA	230	110	52.40	50.40	AL2870
250VA	400	110	66.20	63.65	AL2873
250VA	230	110	66.20	63.65	AL2874
500VA	400	110	94.65	91.05	AL2877
500VA	230	110	94.65	91.05	AL2878
1000VA	400	110	168.80	162.25	AL2881
1000VA	230	110	168.80	162.25	AL2882
1500VA	400	110	208.45	200.40	AL2883

SPECIFICATION

VA	SIZE	FIXING SLOT	Kg
50	80 x 92 x 76	8 x 4	1.1
100	98 x 108 x 82	8 x 5	2.1
150	98 x 108 x 95	8 x 5	2.8
250	118 x 125 x 112	10 x 5	4.0
500	137 x 140 x 130	10 x 5	7.4
750	168 x 165 x 125	12 x 7	10.2
1000	168 x 165 x 145	12 x 7	12.6
1500	216 x 230 x 140	18 x 10	17.4

INSULATED ENCLOSED SWITCH DISCONNECTORS



- Insulated enclosures, rated IP66.
- Red/Yellow integral padlockable handle.
- Complies with IEC-60947-3.



	No. of Poles	Size H x W x D (mm)	Price		Ref. No.
			1	5+	
20A	4	120 x 85 x 90	21.60	20.80	AL2808
32A	4	120 x 85 x 90	26.50	25.50	AL2809
63A	4	190 x 100 x 93	56.90	54.75	AL2810
80A	4	250 x 145 x 107	116.30	111.85	AL2811
100A	4	250 x 145 x 107	126.15	121.30	AL2812
20A	6 + Aux	120 x 85 x 90	69.40	66.75	AL2813
32A	6 + Aux	190 x 100 x 93	85.15	81.90	AL2814
63A	6 + Aux	250 x 145 x 107	121.35	116.75	AL2815
20A	3 + Aux	120 x 85 x 90	37.00	35.60	AL6365
32A	3 + Aux	120 x 85 x 90	51.25	49.25	AL6366

STAINLESS STEEL ENCLOSED SWITCH DISCONNECTORS



- Stainless Steel enclosures.
- Red/Yellow integral padlockable handle.
- Complies with IEC-60947-3.
- Rated IP65.



	No. of Poles	Size H x W x D (mm)	Price		Ref. No.
			1	5+	
20A	4	164 x 94 x 81.5	148.35	143.20	AL2819

STEEL ENCLOSED SWITCH DISCONNECTORS



- Steel enclosures.
- Red/Yellow integral padlockable handle.
- Complies with IEC-60947-3.
- Rated IP65.



	No. of Poles	Size H x W x D (mm)	Price		Ref. No.
			1	5+	
20A	4	164 x 94 x 80	96.80	93.05	AL2816
32A	4	164 x 94 x 80	111.80	107.55	AL2817
63A	4	194 x 119 x 115	145.90	140.25	AL2818

ENCLOSED CHANGEOVER SWITCHES

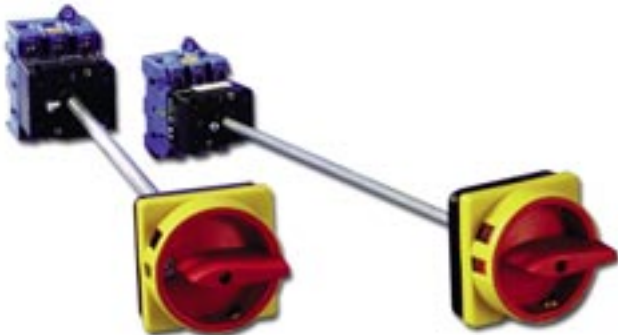


- Insulated enclosure suitable for both single and three phase applications.
- Rated IP65. (excluding AL9371 = IP54).
- Complies with IEC-60947-3.



	No. of Poles	Size H x W x D (mm)	Price		Ref. No.
			1	5+	
25A	2	121 x 86 x 80	79.70	76.70	AL6360
63A	2	189 x 98 x 91	214.00	205.75	AL6361
100A	2	248 x 149 x 110	378.05	363.55	AL6362
25A	4	248 x 149 x 110	160.90	154.75	AL6363
65A	4	280 x 190 x 130	365.90	351.75	AL6364

PANEL MOUNTED SWITCH DISCONNECTORS



- Red/Yellow integral padlockable handle, complete with 300mm adjustable extension shaft.
- IP66 handle.
- Screw or din rail mount.



	No. of Poles	Price		Ref. No.
		1	5+	
20A	3	38.50	36.95	AL2820
32A	3	42.45	40.80	AL2821
63A	3	55.70	53.55	AL2822

CONTROL SWITCHES



- Single 22.5mm hole mounting.
- C/W face plate.



	No. of Poles	Price		Ref. No.
		1	5+	
OFF / ON	1	15.10	14.50	AL9380
OFF / ON	2	16.95	16.30	AL9381
OFF / ON	4	21.50	20.65	AL9382
Change Over With OFF	1	19.40	18.60	AL9383
Change Over With OFF	2	26.50	25.45	AL9384
Change Over With OFF	3	29.80	28.70	AL9385
Change Over Without OFF	1	18.05	17.35	AL9386
Change Over Without OFF	2	23.80	22.85	AL9387
Change Over Without OFF	3	28.40	27.35	AL9388
Change Over Without OFF	1	22.85	22.05	AL9389

RELAYS

INDUSTRIAL CHANGEOVER RELAYS



- Industrial octal and miniature plug in relays.



	No. of Poles	No. of Pins	Contact Rating A	Price		Ref. No.
				1	10+	
12 VDC	2	8	10	9.40	9.05	AL6369
24 VDC	2	8	10	9.40	9.05	AL2885
24 VAC	2	8	10	9.40	9.05	AL2886
110 AC	2	8	10	9.40	9.05	AL2887
230 AC	2	8	10	10.70	10.30	AL2888
12 VDC	3	11	10	10.15	9.75	AL6370
24 VDC	3	11	10	10.15	9.75	AL2889
24 VAC	3	11	10	10.15	9.75	AL2890
110 AC	3	11	10	10.15	9.75	AL2891
230 AC	3	11	10	11.90	11.40	AL2892
24 VDC c/w LED and push to test	4	14	5	7.15	6.85	AL2897
24 VAC c/w LED and push to test	4	14	5	7.15	6.85	AL2898
110 AC c/w LED and push to test	4	14	5	7.15	6.85	AL2899
230 AC c/w LED and push to test	4	14	5	7.15	6.85	AL2900
Push Button LED 12 VDC	4	14	6	7.25	7.00	AL6371
Push Button LED 48 VDC	4	14	6	7.25	7.00	AL6372

SUPPRESSORS FOR PUSH TO TEST RELAYS

Diode - All DC voltages	1.40	1.35	AL6374
Resistive Capacitive - 6 - 60 VAC	3.90	3.70	AL6375
Resistive Capacitive - 110 - 230 VAC	3.90	3.70	AL6376
Plug in Timer Relays for use with AL2909	49.10	47.10	AL6373

INDUSTRIAL RELAY BASES



- Suitable for Surface or Din rail mounted.



	Price		Ref. No.
	1	10+	
8 Pin	4.30	4.15	AL2907
11 Pin	5.30	5.05	AL2908
14 Pin	5.35	5.10	AL2909

MULTI FUNCTION TIMER



- Universal 17.5mm wide timer.
- Accepts 24v AD/DC or 110 - 230v AC inputs.
- Time settings 0.3 seconds to 64 minutes.



	Contact Rating A	Price		Ref. No.
		1	5+	
Multi Function Timer	5	57.60	55.40	AL2912

STAR DELTA TIMER



- DIN rail mounting.
- Supply voltage:
24-48V DC,
24-230V AC 50/60Hz.
- 8 amp rated contacts
- Full scale time ranges:
1s, 5s, 10s, 30s, 1min,
- 5min, 10min,
30min, 1h, 10h.
- LED indication of elapse time.
- Output relay x 2.
- LED indicator for power on,
relay 1 and 2 status.
- CE Approved



	Contact Rating A	Price		Ref. No.
		1	5+	
Timer, Star Delta	5	64.15	61.60	AL6377

FUNCTIONS

