

A range of automatic mechanically interlocked pairs of clapper contactors to provide a means of switching a load to a standby supply in the event of a main supply failure. Loads from 32A to 1250A per pole at up to 500V A.C. or D.C. can be accommodated.

## FEATURES

Up to 4 normally open main poles per contactor	Up to 1250 Amps resistive and 800 Amps lighting load per pole
Rectified control circuit for silent operation	Electrical interlock auxiliary contacts fitted as standard
230V 50/60Hz control voltage as standard	Common load connections fitted
Automatic pairs are fully wired, ready to install	Open type or IP66 sheet steel enclosure
Triple pole types include fixed neutral	Manufactured to BS EN 60947-4-1

Factory fitted options include phase failure sensing, delay on energisation timers, pilot lamps etc. to suit a wide variety of applications. Custom arrangements can also be supplied. Details on request.

## STANDARD CONTACTOR UNITS

RATING AMPS	kVA at 415V	REFERENCES : AUTOMATIC ENCLOSED CHANGEOVER PAIRS		
		DOUBLE POLE	TRIPLE POLE	FOUR POLE
32	22	<b>A8Y4DP32/20E</b>	<b>A8Y4TP32/20E</b>	<b>A8Y4FP32/20E</b>
100	72	<b>A2W4DP100/63E</b>	<b>A2W4TP100/63E</b>	<b>A2W4FP100/63E</b>
160	115	<b>A2DDP160/125E</b>	<b>A2DTP160/125E</b>	<b>A2DFP160/125E</b>
250	180	<b>A2DDP250/160E</b>	<b>A2DTP250/160E</b>	<b>A2DFP250/160E</b>
315	225	<b>A2DDP315/250E</b>	<b>A2DTP315/250E</b>	<b>A2DFP315/250E</b>
500	360	<b>A2MDP500/400E</b>	<b>A2MTP500/400E</b>	<b>A2MFP500/400E</b>
630	450	<b>A2MNDP630/500E</b>	<b>A2MNTP630/500E</b>	<b>A2MNFP630/500E</b>
800	575	<b>A2NDP800/630E</b>	<b>A2NTP800/630E</b>	<b>A2NFP800/630E</b>
1000	720	<b>A2PDP1000/800E</b>	<b>A2PTP1000/800E</b>	<b>A2PFP1000/800E</b>
1250	900	<b>A2RDP1250/800E</b>	<b>A2RTP1250/800E</b>	<b>A2RFP1250/800E</b>

For Unenclosed units (open type) use the suffix **U** in place of the **E** given above.

For mechanically interlocked pairs (i.e. without mains selection relay) replace the **A** prefix with an **M**.

**FACTORY FITTED OPTIONS** : Add the suffix **M** or **S** to each option to specify Mains or Standby contactor

AUXILIARY CONTACTS	ALTERNATIVE CONTROL VOLTAGES			
Auxiliary blocks with 1 n/o + 1 n/c contacts are fitted for electrical interlock as standard. Add the reference <b>AUX</b> plus the number of additional blocks required.	Standard units have 230V A.C. control voltage on both main and standby. Add the option reference from the list below			
	A.C. CONTROL VOLTAGES		D.C. CONTROL VOLTAGES	
<b>DC LOAD SWITCHING</b>	Voltage	Reference	Voltage	Reference
Add the option <b>DCL</b> for DC arc chutes	110V a.c	<b>110AC</b>	110V d.c	<b>110DC</b>
<b>PHASE FAILURE RELAY</b>	415V a.c	<b>415AC</b>	220V d.c	<b>220DC</b>
Used on an automatic pair to select the alternative supply in the event of any phase falling below a selectable voltage. Add the reference <b>PFR/415</b> for a 320-420V unit or <b>PFR/220</b> for a 170-230V version.	Details on request for control voltages not listed above			
	<b>DELAY ON ENERGISATION RELAYS</b>			
	Available for 240V or 110V ac control, specify the reference <b>TDR0.5</b> for 1-30sec, <b>TDR5</b> for 10sec-5min or <b>TDR60</b> for 2-60min. Time is fully adjustable within these ranges.			

## ORDERING EXAMPLE Standard Reference Factory Fitted Options

Automatic changeover — **A 2N TP 800/630 E**  
 (M for mechanically interlocked only)      Contactor type  
 Number of main poles      |  
 (Triple pole and fixed neutral)      |  
 Main contact rating (800A resistive, 630A lighting)      |  
 Enclosure (U for unenclosed type)      |

**+PFR/415M +AUX2M +110DCS**  
 |  
 |      Alternative Control Voltage  
 |      (110 d.c. on standby contactor)  
 |      Additional auxiliary contacts  
 |      (2 n/o + 2 n/c on main contactor)  
 |      Phase failure relay on main contactor

## SPECIFICATION : REFER TO INDIVIDUAL DATASHEETS FOR CONTACTOR RATINGS

<b>TIME DELAY RELAYS</b>
THESE HAVE 2 CHANGEOVER OUTPUT CONTACTS RATED AT 5A, 240V A.C. ONE SET IS USED TO CONTROL THE CONTACTOR, THE OTHER IS AVAILABLE TO THE USER.
<b>PHASE FAILURE RELAYS</b>
CONTACTS AS FOR THE TIME DELAY RELAYS. THESE UNITS HAVE A 500ms RESPONSE TIME TO ELIMINATE NUISANCE TRIPPING

<b>AUXILIARY CONTACTS</b>		
EACH UNIT IS SUPPLIED WITH AUXILIARY CONTACTS FOR ELECTRICAL INTERLOCKING. ADDITIONAL SETS OF 1 N/O + 1 N/C CONTACTS CAN BE FITTED AS FOLLOWS PER CONTACTOR		
CONTACTOR TYPE	FITTED AS STANDARD	AVAILABLE AS OPTION
8Y4	0	1
2W4	0	2
2D	0	6 (3 with HZL)
2M - 2R	1	4

### OVERALL DIMENSIONS (mm)

8Y4 and 2W4 types are horizontally interlocked (mains contactor on the left) and all other types vertically interlocked (mains contactor at top) as standard. To specify horizontal interlocking for these types add **+HZL** to the reference when ordering. Note that these are non-preferred.

CONTACTOR TYPE	RATINGS (A)		INTERLOCK TYPE	OPEN : 2 POLE			OPEN : 3-4 POLE			ENCLOSED		
	HEATING	LIGHTING		H	W	D	H	W	D	H	W	D
8Y4	32	20	HORIZONTAL	216	368	127	270*	368	127	400	600	207
2W4	100	63	HORIZONTAL	277	508	140	273*	508	140	400	600	207
2D	160	125	VERTICAL	506	333	258	506	333	258	800	600	307
2D	250	160	VERTICAL	506	333	258	506	333	258	800	600	307
2D	315	250	VERTICAL	593	333	258	593	333	258	800	600	307
2M	500	400	VERTICAL	960	407	251	960	471	251	1200	600	307
2MN	630	500	VERTICAL	960	407	251	960	471	251	1200	600	307
2N	800	630	VERTICAL	1000	446	251	1000	623	251	1200	600	307
2P	1000	800	VERTICAL	1046	446	257	1046	623	257	1200	800	307
2R	1250	800	VERTICAL	1046	446	257	1046	623	257	1200	800	307

NOTE : \* Triple Pole versions of the 8Y4 and 2W4 are the same dimensions as the double pole

CONTACTOR TYPE	RATINGS (A)		INTERLOCK TYPE	OPEN : 2 POLE			OPEN : 3-4 POLE			ENCLOSED		
	HEATING	LIGHTING		H	W	D	H	W	D	H	W	D
2D	160	125	HORIZONTAL	228	600	245	228	600	245	600	800	307
2D	250	160	HORIZONTAL	228	600	245	228	600	245	600	800	307
2D	315	250	HORIZONTAL	314	600	245	314	600	245	600	800	307
2M	500	400	HORIZONTAL	410	908	226	410	1036	226			
2MN	630	500	HORIZONTAL	410	908	226	410	1036	226			
2N	800	630	HORIZONTAL	431	986	226	431	1340	226			
2P	1000	800	HORIZONTAL	471	986	245	471	1340	245			
2R	1250	800	HORIZONTAL	471	986	245	471	1340	245			

### RELATED PRODUCTS

Enbray Contactors has a well established name for reliable electrical load management and manufactures a wide range of load switching devices ranging from miniature pulse operated devices up to 1250A fully automatic changeover systems.

Specific customer requested configurations can be produced which are supplied with all control wiring in place and therefore require the minimum of installation time. These include Safety Contactors, Emergency Changeover Systems, Multipole contactors, Contactors with normally closed main poles etc. Details on request

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