

TYPES : 2M & 2MN CONTACTORS

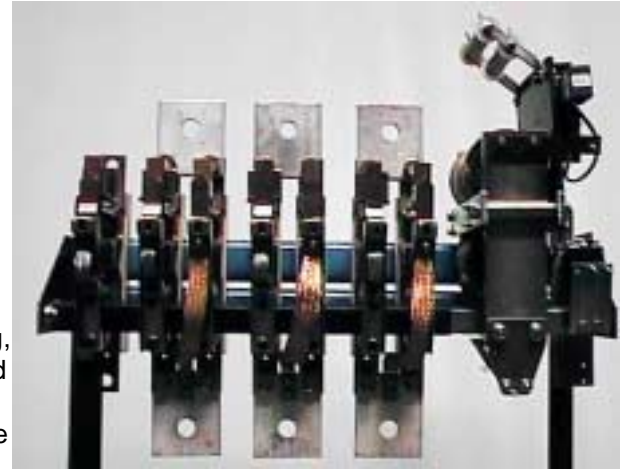


A range of clapper contactors offering reliable switching through the use of separate arcing contacts that make before and break after the main contacts. 1 to 4 pole loads of 500A to 630A at 500V A.C. or D.C. can be accommodated.

FEATURES

- 1 to 4 normally open main poles
- Up to 630 Amps resistive and 500 Amps lighting load per pole
- Rectified control circuit for silent operation
- 230V 50/60Hz control voltage as standard
- Integral control circuit protection via H.R.C. fuse link
- 2 n/o + 2 n/c auxiliary contacts fitted as standard
- Open type or IP66 sheet steel enclosure
- Manufactured to BS EN 60947-4-1

Alternative A.C or D.C control voltages, D.C load switching, additional auxiliary contacts and 250A rated normally closed poles are available as factory fitted options. Mechanically latched versions of these contactors can also be supplied. Details on request.



STANDARD CONTACTOR UNITS

RATING	ENCLOSED TYPE			
	SINGLE POLE	DOUBLE POLE	TRIPLE POLE	FOUR POLE
500A	2MSPN500/400E	2MDP500/400E	2MTPN500/400E	2MFP500/400E
630A	2MNPN630/500E	2MNDP630/500E	2MNTPN630/500E	2MNFN630/500E

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

FACTORY FITTED OPTIONS

AUXILIARY CONTACTS	ALTERNATIVE CONTROL VOLTAGES			
2 auxiliary blocks with 1 n/o + 1 n/c contacts are fitted as standard. Up to 4 more may be fitted. Add the reference AUX plus the number of additional blocks required.	Standard units have 230V A.C. control voltage. Add the option from the list below to the contactor reference			
	A.C. CONTROL VOLTAGES		D.C. CONTROL VOLTAGES	
DC LOAD SWITCHING	Voltage	Reference	Voltage	Reference
This is achieved by the use of coil wound blowouts in place of the conventional arc-chutes. These are also effective on inductive A.C. loads. Add the option DCL to the reference.	12V a.c	12AC	12V d.c	12DC
	24V a.c	24AC	24V d.c	24DC
	50V a.c	50AC	50V d.c	50DC
	110-125V a.c	110AC	110-125V d.c	110DC
	415V a.c	415AC	220-250V d.c	220DC
NORMALLY CLOSED MAIN POLES	Details on request for control voltages not listed above			
Any of the main poles can be replaced by a 250A rated normally closed pole. Add the option NCP followed by the no. of n/c poles				

ORDERING EXAMPLE Standard Reference

2M TPN 500/400 E

Contactor type _____
 Number of main poles _____
 (Triple pole and fixed neutral)
 Main contact rating (500A resistive, 400A lighting)
 Enclosure (U for unenclosed type) _____

Factory Fitted Options

+DCL +AUX1 +110DC

_____ Alternative Control Voltage
 (110-125V d.c.)
 _____ Additional auxiliary contacts
 (1 n/o + 1 n/c)
 _____ D.C. load switching

SPECIFICATION

CONTACT RATING at 500V A.C or D.C.		
LOAD TYPE	2M	2MN
HEATING (AC1, DC1)	500A	630A
4th POLE RATING	500A	500A
LIGHTING	400A	500A
SODIUM LIGHTING	200A	250A
MOTOR (AC3, DC3)	400A	500A
CAPACITOR	400A	500A
TRANSFORMER	400A	500A

SPECIFY **DCL** FOR D.C. & INDUCTIVE LOADS.
A FULLY RATED 4TH POLE IS AVAILABLE ON
TYPE 2MN TO SPECIAL ORDER

AUXILIARY CONTACT RATING					
2 BLOCKS WITH 1 N/O + 1 N/C FITTED AS STANDARD. UP TO 4 MORE AVAILABLE AS A FACTORY FITTED OPTION			500V A.C. - 5A 250V D.C. - 2.5A resistive, 1.25A with 10ms t.c		
COIL CONSUMPTION					
IN-RUSH	A.C.	D.C.	SEALED	A.C.	D.C.
2M	165VA	150W	2M	33VA	30W
2MN	130VA	120W	2MN	60VA	55W
TERMINAL CABLE SIZES					
CONTROL	1 or 2 x 2.5mm ²				
MAIN	13.5mm HOLE IN 29mm COPPER				

OUTLINE DIMENSIONS (mm) ALL FIXINGS SUIT M10 SCREWS

OPEN TYPES	1 & 2 POLE Weights : SP - 24kg DP - 26kg	3 & 4 POLE Weights : TP - 32kg FP - 34kg
<p>NOTES : Neutral is in position 2 on SPN. Mechanical latch option adds 150mm to the heights indicated Dimensions in brackets apply when option DCL is fitted. DCL option adds 2.1kg per pole to weight</p>		
ENCLOSED TYPES		
<p>All enclosed types are fitted in an IP66 enclosure with door. 1 - 4 POLE STANDARD. Dimensions (mm) 600h x 600w x 307d. Weight: add 25.0kg to open type 1 & 2 POLE WITH DCL OPTION. Dimensions (mm) 800h x 600w x 307d. Weight: add 33.6kg to open type 3 & 4 POLE WITH DCL OPTION. Dimensions (mm) 800h x 800w x 307d. Weight: add 42.7kg to open type</p>		

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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