

# TYPES : 2N, 2P, 2R CONTACTORS

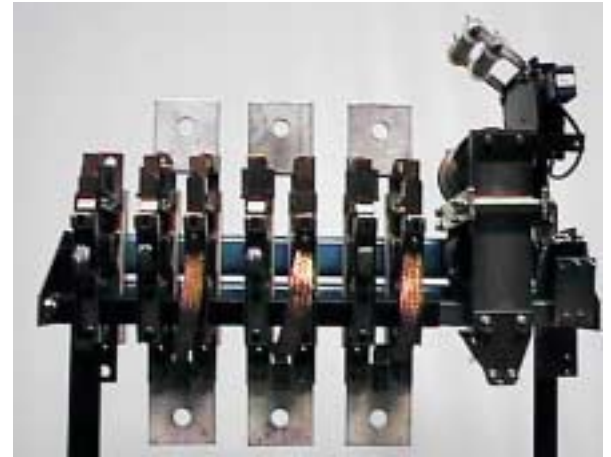


A range of clapper contactors offering reliable switching through the use of separate arcing contacts that make before and break after the main contacts. 1 to 4 pole loads of 800A to 1250A at 500V A.C. or D.C. can be accommodated.

## FEATURES

- 1 to 4 normally open main poles
- Up to 1250 Amps resistive and 800 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 450A 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	REFERENCES : ENCLOSED TYPE			
	SINGLE POLE	DOUBLE POLE	TRIPLE POLE	FOUR POLE
800A	<b>2NSPN800/630E</b>	<b>2NDP800/630E</b>	<b>2NTPN800/630E</b>	<b>2NFP800/630E</b>
1000A	<b>2PSPN1000/800E</b>	<b>2PDP1000/800E</b>	<b>2PTPN1000/800E</b>	<b>2PFP1000/800E</b>
1250A	<b>2RSPN1250/800E</b>	<b>2RD1250/800E</b>	<b>2RTPN1250/800E</b>	<b>2RFP1250/800E</b>

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 <b>AUX</b> 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	
<b>DC LOAD SWITCHING</b> 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 <b>DCL</b> to the reference.	Voltage	Reference	Voltage	Reference
	12V a.c	<b>12AC</b>	12V d.c	<b>12DC</b>
	24V a.c	<b>24AC</b>	24V d.c	<b>24DC</b>
	50V a.c	<b>50AC</b>	50V d.c	<b>50DC</b>
	110-125V a.c	<b>110AC</b>	110-125V d.c	<b>110DC</b>
<b>NORMALLY CLOSED MAIN POLES</b> Any of the main poles can be replaced by a 450A rated normally closed pole. Add the option <b>NCP</b> followed by the no. of n/c poles	415V a.c	<b>415AC</b>	220-250V d.c	<b>220DC</b>
	Details on request for control voltages not listed above			

## ORDERING EXAMPLE Standard Reference

**2N TPN 800/630 E**

Contactor type \_\_\_\_\_  
 Number of main poles \_\_\_\_\_  
 (Triple pole and fixed neutral)  
 Main contact rating (800A resistive, 630A 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

<b>CONTACT RATING at 500V A.C or D.C.</b>			
LOAD TYPE	2N	2P	2R
HEATING (AC1, DC1)	800A	1000A	1250A
4th POLE RATING	500A	630A	630A
LIGHTING	630A	800A	800A
SODIUM LIGHTING	320A	400A	-
MOTOR (AC3, DC3)	630A	-	-
CAPACITOR	630A	-	-
TRANSFORMER	630A	-	-

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

<b>AUXILIARY CONTACT RATING</b>					
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		
<b>COIL CONSUMPTION</b>					
IN-RUSH	A.C.	D.C.	SEALED	A.C.	D.C.
2N	130VA	120W	2N	60VA	55W
2P & 2R	405VA	370W	2P & 2R	140VA	130W
<b>TERMINAL CABLE SIZES</b>					
CONTROL	1 or 2 x 2.5mm <sup>2</sup>				
MAIN	19.1mm HOLE IN 76 x 6.3mm COPPER				

## OUTLINE DIMENSIONS (mm) ALL FIXINGS SUIT M10 SCREWS

2N, 2P & 2R OPEN TYPE	1 & 2 POLE Weights : SP - 28kg DP - 30kg	3 & 4 POLE Weights : TP - 38kg FP - 40kg
<p>NOTES : Neutral is in position 2 on SPN. Mechanical latch option adds 150mm to the heights indicated Dimensions in brackets apply when option <b>DCL</b> is fitted. DCL option adds 2.1kg per pole to weight</p>		
<b>ENCLOSED TYPES</b>		
<p>All enclosed types are fitted in an IP66 enclosure with door. 1 &amp; 2 POLE. Dimensions (mm) 800h x 600w x 307d. Weight: add 33.6kg to open types 3 &amp; 4 POLE. Dimensions (mm) 800h x 800w x 307d. Weight: add 42.7kg to open types</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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