XT IEC Power Control

Product Identification

Mounting Accessories ^③ Rotary handle mechanism

6

(see Page V5-T1-169) ON/OFF/tripped switch position indication Lockable door/cover interlock Extendable y plug fit extension shaft Handle latched in switch positions Optionally also without locking and door interlock function

Insulated enclosures (see Page V5-T1-172)

delta starters

Surface mounting, enclosures, IP40, IP55 and IP40 and IP55 front flush mounting enclosure

Mounting/wiring (see Page V5-T1-169) Component adapter for busbar mounting Three-phase commoning link for side-by-side-mounting Mounting kits for rapid mounting of direct-on-line, reversing and star-



Notes **Basic Units**

14 x l_u Overload release, adjustable 0.6-1 x lu Single-phasing sensitive

- ① XTPB pushbutton manual motor protectors (see Page V5-T1-163) Rated operational current up to 25A Switching capacity 50 kA/415V Short-circuit release, adjustable 0.6–1 x l_u
- Single-phasing sensitive XTPR rotary manual motor protectors
 - Rated operational current up to Switching capacity 150/50 kA/415V Short-circuit release, fixed setting to
 - With screws or spring-loaded terminals

Add-On Functions

④ Voltage releases (see Page V5-T1-168) Undervoltage release Shunt releases With screws or spring-loaded terminals

(5)

Standard auxiliary contacts (see Page V5-T1-166) ON/OFF indication Differential fault indication overload/ short-circuit release ON/OFF for (high capacity) contact

- module ON/OFF for starter combination
- With early-make contacts
- With screws or spring-loaded terminals
- © Current limiter (see Page V5-T1-168) Increases the switching capacity of the 10-25A manual motor protectors to 100 kA/440V
 - Can be used for individual group protection





Catalog Number Selection

XT Manual Motor Protectors



Product Selection

Product Selection for Manual Motor Starter Applications

When ordering, specify catalog numbers according to the following stipulations:

XT manual motor protectors are selected based on the overload current range required for a given motor. This current range is determined from the motor full load ampere rating and motor service factor usually found on the motor nameplate. For motors with service factors less than 1.15, multiply the motor FLA by 0.90 to select appropriate MMP.

Example: For motor having FLA of 6.4A and service factor of 1.0 ($6.4A \times 0.90 = 5.76A$) select catalog number XTPB6P3B01.

See Application Note— AP03402001E. For motor with service factor of 1.15 or greater, use motor nameplate full load amperes to select the appropriate MMP.

Example: For motor having FLA of 11A and service factor of 1.15, select catalog number XTPR012BC1.

Frame B

ХТРВ	Pushbutton	Manual Motor	Protectors-	Global and	North American	Ratings—Frame B
Type 1	and Type 2 (Coordination Mo	tor Protective	Device with	Thermal and Ma	gnetic Trip

Rated	FLA Adjustment Range/ Overload Release— I _r (Amps)	Short Circuit Release— I _{rm} (Amps) I_>	Maximum Motor Ratings ^① Maximum kW Rating AC-3—P (kW) Three-Phase					Maximum hp Rating—P (hp) UL 508/CSA C22.2 No. 14 Three-Phase				
Current— I _u = I _e (Amps)			220– 240V	380– 415V	440V	500V	660– 690V	200V	240V	480V	600V	Screw Terminal Catalog Number
0.16	0.1–0.16	2.2	—			_	0.06	2	2	2	2	XTPBP16BC1
0.25	0.16-0.25	3.5	_	0.06	0.06	0.06	0.12	2	(2)	(2)	2	XTPBP25BC1
0.4	0.25-0.4	5.6	0.06	0.09	0.12	0.12	0.18	(2)	(2)	(2)	(2)	XTPBP40BC1
0.63	0.4-0.63	8.8	0.09	0.12	0.18	0.25	0.25	2	2	2	2	XTPBP63BC1
1	0.63-1	14	0.12	0.25	0.25	0.37	0.55	(2)	(2)	2	1/2	XTPB001BC1
1.6	1-1.6	22	0.25	0.55	0.55	0.75	1.1	(2)	(2)	3/4	3/4	XTPB1P6BC1
2.5	1.6-2.5	35	0.37	0.75	1.1	1.1	1.5	1/2	1/2	1	1-1/2	XTPB2P5BC1
4	2.5-4	56	0.75	1.5	1.5	2.2	3	3/4	3/4	2	3	XTPB004BC1
6.3	4-6.3	88	1.1	2.2	3	3	4	1	1-1/2	3	5	XTPB6P3BC1
10	6.3–10	140	2.2	4	4	4	7.5	3	3	7-1/2	10	XTPB010BC1
12	8–12	168	3	5.5	5.5	5.5	11	3	3	7-1/2	10	XTPB012BC1
16	10-16	224	4	7.5	9	9	12.5	3	5	10	10	XTPB016BC1
20	16-20	280	5.5	9	11	12.5	15	5	_	_	15	XTPB020BC1
25	20-25	350	5.5	12.5	12.5	15	22	_	7-1/2	15	20	XTPB025BC1

Notes

Single-phasing sensitivity to IEC/EN 60947-4-1, VDE 0660 Part 102.

Can be snap-fit to IEC/EN 60715 top-hat (DIN) with 7.5 or 15 mm height.

Service Factor (SF)—Setting I_r of current scale in dependence of load factor:

 $SF=1.15 \rightarrow I_r=1 \ x \ I_n \ mot}$

 $SF = 1 \rightarrow I_r = 0.9 \text{ x } I_n \text{ mot}$

For manual motor protective circuit breaker switching capacity, see Page V5-T1-181.

^① Select manual motor protectors by full load amperes. Maximum motor ratings (kW, hp) are for reference only.

⁽²⁾ In this range, calculate motor rating according to rated current. Specified values to NEC 430.6(A)(1).

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