

Technical Data and Specifications

XT Electronic Manual Motor Controllers

Description	Specification	XTPE012B	XTPE032B	XTPE065D
General				
Standards and regulations		IEC/EN 60947-4-1, VDE 0600, UL 508, CSA C 22.2 No. 14		
Climatic proofing		Damp heat, constant, to IEC 60068-2-78		
		Damp heat, cyclic, to IEC 60068-2-30		
Ambient temperature				
Storage		-40° to 80°C	-40° to 80°C	-40° to 80°C
Open		-25° to 55°C	-25° to 55°C	-25° to 55°C
Enclosed		-25° to 40°C	-25° to 40°C	-25° to 40°C
Direction of incoming supply		Any	Any	Any
Degree of protection	Device	IP20	IP20	IP20
	Terminals	IP00	IP00	IP00
Touch protection				
Mechanical shock resistance half-sinusoidal shock, 10 ms to IEC 60068-2-27		25g	25g	25g
Altitude		Max. 2000m	Max. 2000m	Max. 2000m
Conductor Cross-Sections				
Screw terminals	Solid	1 x (1-6) mm ²	1 x (1-6) mm ²	1 x (0.75-16) mm ²
		2 x (1-6) mm ²	2 x (1-6) mm ²	2 x (0.75-16) mm ²
	Stranded with ferrule to DIN 46228	1 x (1-6) mm ²	1 x (1-6) mm ²	1 x (0.75-35) mm ²
		2 x (1-6) mm ²	2 x (1-6) mm ²	2 x (0.75-25) mm ²
Solid or stranded	18-10 AWG	18-10 AWG	14-2 AWG	
Screw Terminal Tightening Torque				
Main conductor		1.7 Nm	1.7 Nm	3.3 Nm
Auxiliary conductor		1 Nm	1 Nm	1 Nm
Main Circuit				
Rated impulse withstand voltage	U _{mp}	6,000 Vac	6,000 Vac	6,000 Vac
Overvoltage category/pollution degree		III/3	III/3	III/3
Rated operational voltage	U _e	690V	690V	690V
Rated uninterrupted current = rated output current	I _u = I _e	12A	32A	65A
Rated frequency		40-60 Hz	40-60 Hz	40-60 Hz
Current heating losses (three-pole at operating temperature)		6W	6W	6W
Lifespan, mechanical	Operations	0.05 x 10 ⁶	0.05 x 10 ⁶	0.05 x 10 ⁶
Lifespan, electrical (AC-3 at 400V)	Operations	0.05 x 10 ⁶	0.05 x 10 ⁶	0.05 x 10 ⁶
Maximum operating frequency	Operations/h	60	60	60
Short-Circuit Rating				
Motor switching capacity AC	AC-3 up to 690V	12A	32A	65A
Trip Unit				
Temperature compensation to IEC/EN 60947, VDE 0660		-5° to 40°C	-5° to 40°C	-5° to 40°C
Operating range		-25° to 55°C	-25° to 55°C	-25° to 55°C
Temperature compensation residual error for T > 40°C		≤0.1%/K	≤0.1%/K	≤0.1%/K
Overload release setting range		0.25-1 x I _u	0.25-1 x I _u	0.25-1 x I _u
Fixed short-circuit trip setting		12 x I _t (trip unit), 14 x I _u (base)	12 x I _t (trip unit), 14 x I _u (base)	12 x I _t (trip unit), 14 x I _u (base)
Short circuit release tolerance		±20%	±20%	±20%
Phase failure sensitivity		Yes	Yes	Yes

Trip Characteristics**XT Electronic Manual Motor Controllers**