

SIMOTICS XP- technical details

EX-Zone	1			2	21	22
Type of protection	Ex db IIC	Ex db IIB	Ex eb	Ex ec	Ex tb	Ex tc
Power Range	0,25-460 kW	5,5-90 1) kW	0,12-165 kW	0,09-1,000kW		
Voltage	50/ 60 Hz: 220 to 690 V					
Shaft Height	71-355 mm	132-280 mm 1)	63-315 mm	63-450 mm		
No. of poles	2-8		2-6	2-8		
Degrees of protection	IP55 to IP66				IP65	IP55
Efficiency	IE3 Premium Efficiency			IE2, IE3, IE4 (only 1MB5)		
Converter Duty	Optional stand. Isol. ≤480V 2) Optional prem. Isolation ≤690V	No request	optional ≤480V 3) 690 V only with G180 with increased du/dt filter (G180 with option code L10)			
Design	IM B3, B5, B34, B35, V1, etc.					
Motor materials -housing Fan cover Rating plate	Cast iron Metal Metal	Cast iron; SH 63 Metal Metal	Cast iron; SH 63- 160 4) Aluminium Metal Metal			
Ambient temperature	Standard -20 °C to + 40 °C, optional -40 °C to +60 °C(exceptEx dbIIB)					
Temperature class DOL	155 (F) utilization to 130 (B)					
Temperature class VSD	130 (B) & 155 (F)	No request	130 (B)			
Certificates	ATEX, IECEX, EACEX,CCCEX	ATEX, IECEX	ATEX, IECEX, EACEX, CC Ex			

1) Same rating and frame size range as Ex dbIIC follows

2) >480 to 690V on PWM-VSD with filter ULL < 3000 V peak peak

3) 1MB5: VSD on request

4) 1MB10, FS 63/71: certificates of Notified Body Ex ec/tcscheduled, Ex tb follows