

BELLE™ Single-Phase Motor Installation

Rated Horsepower (Hp)	30	40	50	60	75	100
Rated Single-Phase Voltage (V)	230 / 460	230 / 460	460	460	460	460
Rated Shaft Speed (Rpm)	1800	1800	1800	1800	1800	1800
Rated Efficiency (%)	93.0	93.5	94.0	94.5	95.0	95.5
Rated Power Factor (pf)	1.0	1.0	1.0	1.0	1.0	1.0
Rated Full Load Amps (FLA)	105 / 52	139 / 69	86	103	128	170
Rated Full Load Demand (kVA)	24.1	31.9	39.7	47.4	58.9	78.1
Utility Service Requirements						
Single-Phase Utility Service Voltage (V) ^(1, 2)	240 / 480	240 / 480	480	480	480	480
Utility Service Transformer Rating (kVA) ^(2, 3)	25	37.5	50	50	75	100
Electrical Supply Connections						
Recommended Fuse/Breaker Rating (A) ⁽⁴⁾	125 / 70	175 / 90	110	125	175	200
Minimum Supply Cable Ampacity (1.25 x FLA) ⁽⁵⁾	131 / 65	173 / 87	108	129	160	212
Minimum Supply Cable Size (based on ampacity) ^(2, 6)	1/0 / 4 Awg	2/0 / 2 Awg	1 Awg	1 Awg	2/0	4/0
Environmental Conditions						
Environmental Classifications ⁽⁷⁾	Total-Enclosed Fan-Cooled Enclosure (TEFC) – Indoor / Outdoor (non-hazardous rating)					
Ambient Temperature (F / C) ⁽⁷⁾	32 F – 104 F / 0 C – 40 C					

NOTE: Minimum wire size determined using the requirements specified by 2017 NEC® 70 for of a two(2) conductor cable with direct burial installation and a 30 C ambient temperature