Motor Data Sheet

Guaranteed values are noted in [brackets]

Specified Requirements & Frame Data

Power, HP:	400	Frame:	5011
Service Factor:	1.15	Type:	CMZ
Voltage:	2300 / 4000	Rotor Construction:	Aluminum Die Cast
Number of Phases:	3	Load Inertia (wk^2), lb-ft^2:	4199
Frequency, Hz:	60	Rotor Inertia (wk^2), lb-ft^2:	160.0
Ambient, °C:	40	Rotor Weight, lbs:	1067
Enclosure:	TEFC	Motor Weight, lbs:	4775
Synchronous Speed, RPM:	1200	Stator Temp. Rise, °C:	80 by RES @ 1SF
% Starting Voltage:	90	Sound Pressure Level:	80dBA @ 3ft, unloaded
Elevation, ft:	3300	Insulation Class:	F-VPI
Certification Agency:	N/A	Bearing Type:	Anti-Friction

Performance Data

Locked Rotor Current, %FLA:	576	Full Load Torque, lb-ft:	1770
kVA/HP:	5.73	Starting Torque, %FLT:	144
kVA Code:	G	Breakdown Torque, %FLT:	233
NEMA Design:	-	Open Circuit Time Constant, s:	0.544
X/R Ratio:	14.855	Short Circuit (AC) Time Constant, s:	0.037

Condition / Per-Unit Load:	Stall	Idle	0.25	0.50	0.75	1.00	1.15
% Efficiency:	N/A	N/A	89.7	93.2	94.0	93.9	93.6
% Power Factor:	26.5	4.8	43.9	66.0	75.8	79.9	81.0
Speed, RPM:	0	1200	1197	1194	1190	1187	1185
High Voltage Current, Wye:	330.7	23.0	27.3	35.0	45.3	57.4	65.3
Low Voltage Current, Delta:	572.7	39.8	47.4	60.6	78.5	99.4	113.2

% Rated Voltage:	100	90	
Safe Stall Time, Motor Cold:	19	24	Seconds
Safe Stall Time, Motor Hot:	15	21	Seconds
Acceleration Time:	7.9	10.2	Seconds

Please Note:

Responsible dept.	Technical reference	Created by	Approved by	Project
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