

Motor Data Sheet

Guaranteed values are noted in [brackets]

Specified Requirements & Frame Data

Power, HP:	2250	Frame: 5812S
Service Factor:	1.15	Type: CGII
Voltage:	2300 / 4000	Rotor Construction: Fabricated Copper Bar
Number of Phases:	3	Load Inertia (wk ²), lb-ft ² : -
Frequency, Hz:	60	Rotor Inertia (wk ²), lb-ft ² : 236.0
Ambient, °C:	40	Rotor Weight, lbs: 1496
Enclosure:	WP11	Motor Weight, lbs: 8300
Synchronous Speed, RPM:	3600	Stator Temp. Rise, °C: 80 by RES @ 1SF
% Starting Voltage:	90	Sound Pressure Level: 82dBA @ 3ft, unloaded
Elevation, ft:	3300	Insulation Class: F-VPI
Certification Agency:	N/A	Bearing Type: Sleeve

Performance Data

Locked Rotor Current, %FLA:	729	Full Load Torque, lb-ft: 3302
kVA/HP:	6.14	Starting Torque, %FLT: 82
kVA Code:	G	Breakdown Torque, %FLT: 258
NEMA Design:	-	Open Circuit Time Constant, s: 2.824
X/R Ratio:	16.804	Short Circuit (AC) Time Constant, s: 0.072

<u>Condition / Per-Unit Load:</u>	<u>Stall</u>	<u>Idle</u>	<u>0.25</u>	<u>0.50</u>	<u>0.75</u>	<u>1.00</u>	<u>1.15</u>
% Efficiency:	N/A	N/A	94.5	96.1	96.3	96.0	95.8
% Power Factor:	14.8	6.7	79.1	89.9	92.1	92.3	92.0
Speed, RPM:	0	3600	3595	3590	3584	3579	3576
High Voltage Current, Wye:	1993.2	44.1	81.0	140.2	204.9	273.4	316.1
Low Voltage Current, Delta:	3452.3	76.3	140.3	242.8	354.8	473.6	547.5
<u>% Rated Voltage:</u>	<u>100</u>	<u>90</u>					
Safe Stall Time, Motor Cold:	9	11	Seconds				
Safe Stall Time, Motor Hot:	7	10	Seconds				
Acceleration Time:	-	-	Seconds				

Please Note: Suitable for Class 1, GRP B C D , Div 2, Temp. 200°C, Oper. Code T3.

Responsible dept. PD LD AP MF-NOW EN EE	Technical reference	Created by CNT	Approved by ESO	Project
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