

**BALDOR® • RELIANCE™**

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# Customer information packet

## EM2551TS-12

75HP, 1775RPM, 3PH, 60HZ, 365TS, 4462M, OPSB, F

## Specifications

Enclosure	OPSB
Frame	365TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	174.000 A @ 230.0 V 87.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	87.0 a

## Part detail

Revision	S
Type	AC
Mech. spec.	44E018
Base	
Status	PRD/A
Elec. spec.	44WGW162
Layout	44LYE018
Eff. date	11-29-2023
CD Diagram	CD0104
Poles	04
Leads	12#8
Proprietary	False
Created date	08-06-2010

<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Ready
<b>IP Rating</b>	NONE
<b>KVA Code</b>	F
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	12 @ 8 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	4462M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	31.59 IN
<b>Power Factor</b>	87
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.875 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1775 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Wye Start - Delta Run
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

NP2138LUA										
<b>CAT.NO.</b>	EM2551TS-12		<b>P/N</b>				<b>ENCLOSURE</b>	OPSB		
<b>SPEC.</b>	44E018W162G1	<b>CC</b>	010A	<b>FRAME</b>	365TS	<b>S/N</b>				
<b>HP</b>	75	<b>CLASS</b>	F	<b>HZ</b>	60					
<b>RPM</b>	1775	<b>PH</b>	3	<b>DES</b>	B					
<b>VOLT</b>	230/460		<b>KVA-CODE</b>	F	<b>ODE BRG</b>	6312	<b>DE BRG</b>	6313		
<b>AMP</b>	174/87									
<b>RATING</b>	40C AMB-CONT		<b>GREASE</b>	POLYREX EM						
<b>NEMA-NOM-EFF</b>	95	<b>PF</b>	87	<b>SER.F.</b>	1.15					
	50Hz 75Hp 190/380V 208/104A				SF 1.0					
<b>HTR-VOLTS</b>	<b>HTR-AMPS</b>									

**AC Induction Motor Performance Data**

Record # 31071

Typical performance - not guaranteed values

<b>Winding: 44WGW162-R001</b>		<b>Type: 4462M</b>		<b>Enclosure: OPEN</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	75	<b>Full Load Torque</b>	222 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	174/87	<b>Breakdown Torque</b>	617 LB-FT		
<b>R.P.M.</b>	1775	<b>Pull-up Torque</b>	239 LB-FT		
<b>Hz</b>	60	<b>Locked-rotor Torque</b>	332 LB-FT		
<b>NEMA Design Code</b>	B	<b>Starting Current</b>	512 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	26.4 A		
<b>NEMA Nom. Eff.</b>	95	<b>Line-line Res. @ 25°C</b>	0.0781 Ω		
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	30°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	37°C		
		<b>Locked-rotor Power Factor</b>	26.3		
		<b>Rotor inertia</b>	11.7 LB-FT <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 75 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	56	77	83	87	87	87	87
<b>Efficiency</b>	93.6	95.5	96	95.3	94.9	93.9	95.1
<b>Speed</b>	1794	1788	1782	1776	1769	1761	1772
<b>Line amperes</b>	34.1	48.2	66.2	87	106	128	97.8

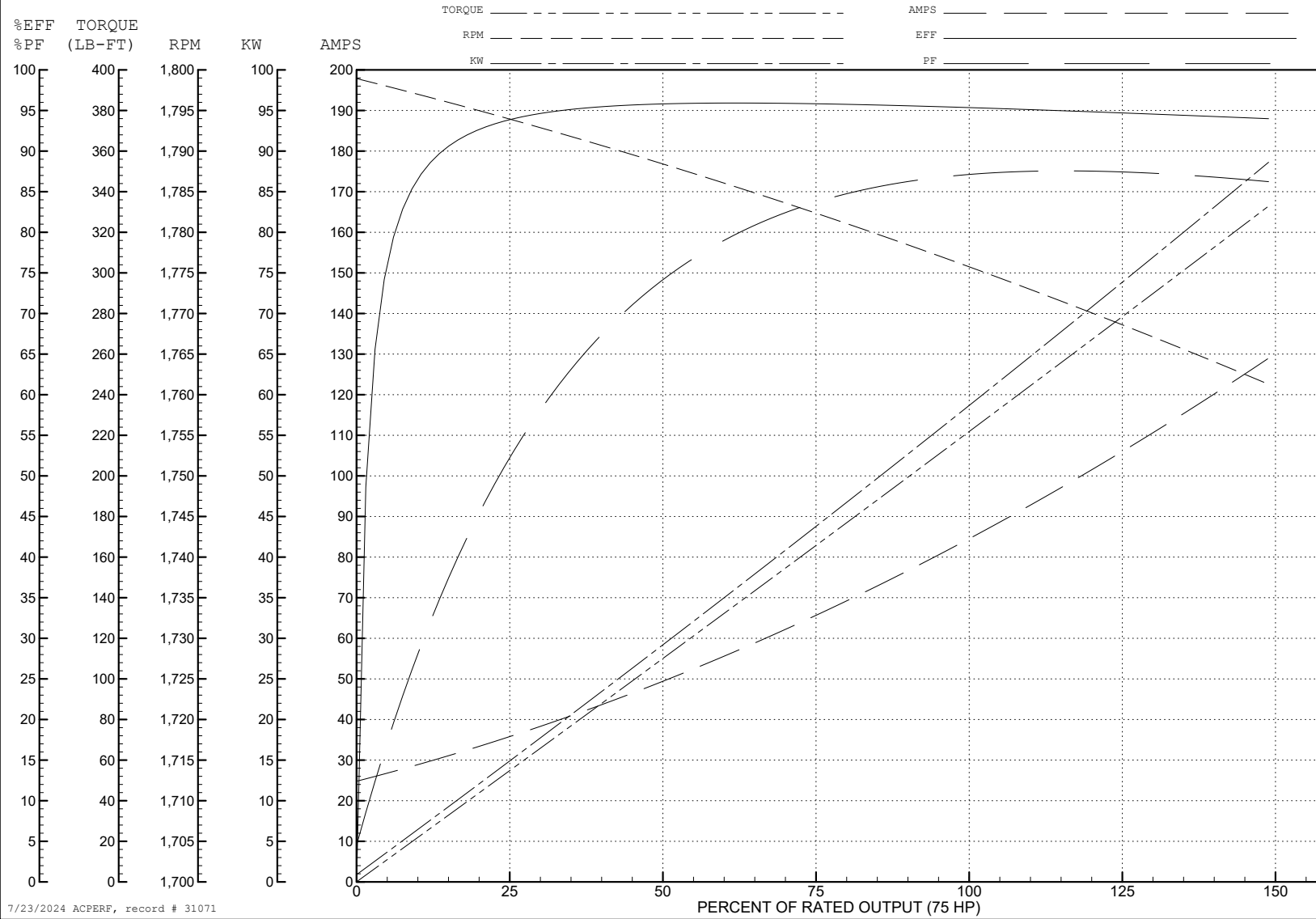
ABB Motors and Mechanical Inc.

WINDING # 44WGW162

Typical performance - not guaranteed values.

75 HP 3 PH 60 HZ 1775 RPM 460 V 4462M

TORQUES (LB-FT): PO=617 PU=239 LR=332 LRA=512



7/23/2024 ACPERF, record # 31071

