

ABB BALDOR RELIANCE III

Customer information packet

EM7048T

7.5//5HP, 1180//980RPM, 3PH, 60//50HZ, 254T

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	254T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 50 HZ 7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ
Agency Approvals	CSA CSA EEV UL UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	9.600 A @ 380.0 V 22.000 A @ 230.0 V 19.200 A @ 190.0 V 11.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	U
Type	AC
Mech. spec.	09E270
Base	
Status	PRD/A
Elec. spec.	09WGT118
Layout	09LYE270
Eff. date	02-15-2024
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	10-03-2014

Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	9.6 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.50 IN
Power Factor	70
Product Family	Hazardous Location Motor
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	None
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm 980 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSLEV									
NO.		CC	010A						
SER.									
SPEC.	09E270T118G1								
CAT.NO.	EM7048T								
HP	7.5//5	T. CODE	T3C						
VOLTS	230/460//190/380								
AMPS	22/11//19.2/9.6								
RPM	1180//980								
HZ	60//50	PH	3	CL	B				
SER.F.	1.00	DES	A	CODE	J				
RATING	40C AMB-CONT								
FRAME	254T	NEMA-NOM-EFF							91
		PF	70						
BLANK									

AC Induction Motor Performance Data

Record # 47562

Typical performance - not guaranteed values

Winding: 09WGT118-R005		Type: 0954M	Enclosure: XPFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5//5	Full Load Torque	33.2 LB-FT
Volts	230/460//190/380	Start Configuration	direct on line
Full Load Amps	22/11//19.2/9.6	Breakdown Torque	113 LB-FT
R.P.M.	1180//980	Pull-up Torque	41.3 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	57.4 LB-FT
NEMA Design Code	A KVA Code	Starting Current	74.8 A
Service Factor (S.F.)	1	No-load Current	6.06 A
NEMA Nom. Eff.	91 Power Factor	Line-line Res. @ 25°C	0.87037 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	36°C

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	32	52	63	70	74	75
Efficiency	83.2	89.4	90.9	91.1	90.7	89.9
Speed	1196.5	1192.4	1188.3	1183.7	1178.7	1173.2
Line amperes	6.49	7.59	9.09	11	13.1	15.5

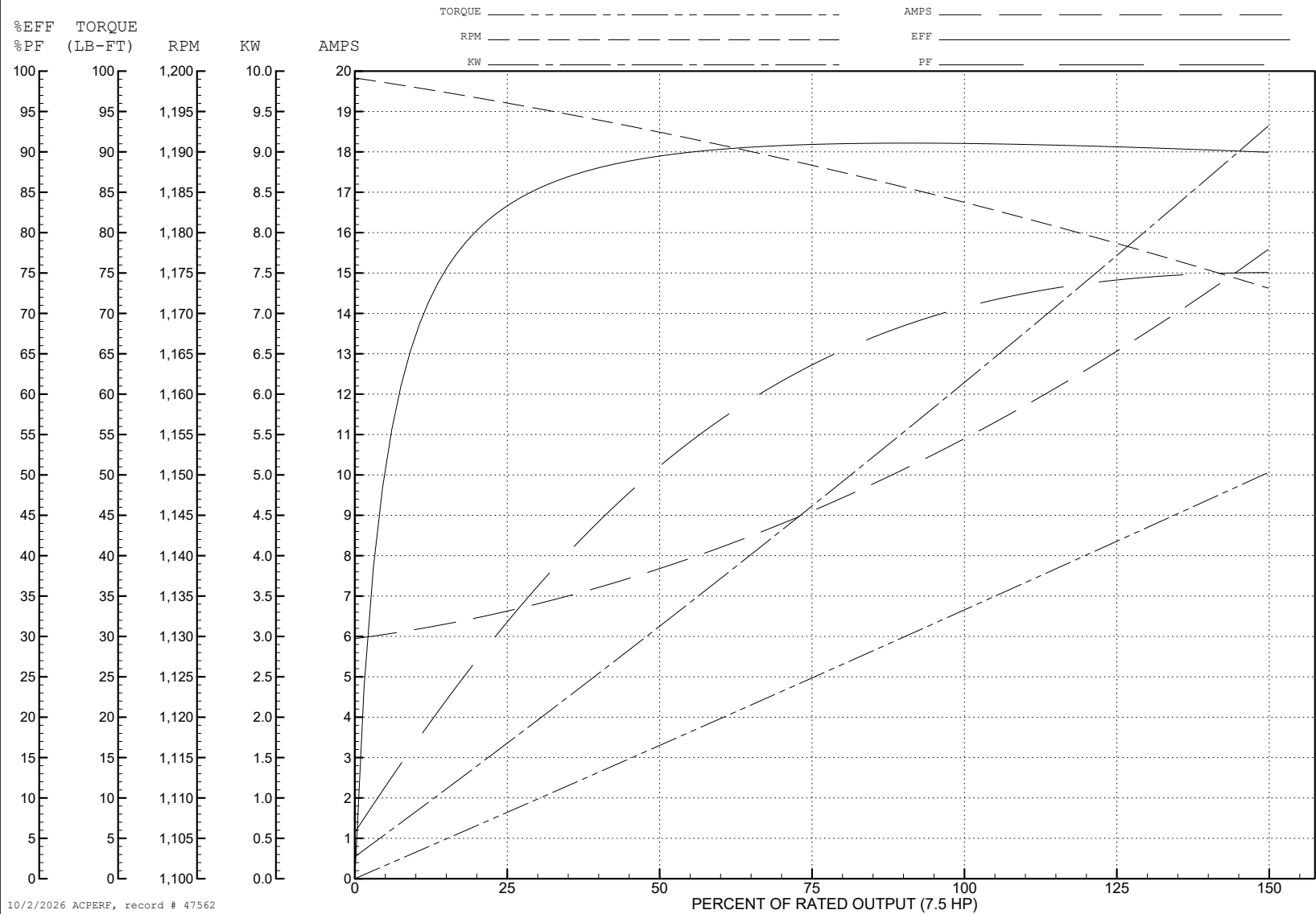
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WINDING # 09WGT118

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1183.7 RPM 460 V 0954M

TORQUES (LB-FT): PO=113 PU=41.3 LR=57.4 LRA=74.8



AC Induction Motor Performance Data

Record # 47563

Typical performance - not guaranteed values

Winding: 09WGT118-R005				Type: 0954M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		7.5//5		Full Load Torque		26.6 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		22/11//19.2/9.6		Breakdown Torque		109 LB-FT	
R.P.M.		1180//980		Pull-up Torque		43.5 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		J	
Service Factor (S.F.)		1		No-load Current		6 A	
NEMA Nom. Eff.		91		Power Factor		70	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		29°C	
				Locked-rotor Power Factor		28.9	
				Rotor inertia		4.34 LB-FT2	

Load Characteristics 380 V, 50 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	28	46	58	66	71	74
Efficiency	79.9	87.2	89.7	90.3	90.1	89.3
Speed	997	994	990	987	983	979
Line amperes	6.3	7.07	8.15	9.56	11.1	12.9

ABB Motors and Mechanical Inc.

WINDING # 09WGT118

Typical performance - not guaranteed values.

5 HP 3 PH 50 HZ 987 RPM 380 V 0954M

TORQUES (LB-FT): PO=109 PU=43.5 LR=60.5 LRA=73.4

