

ABB BALDOR RELIANCE III

Customer information packet

EGDM3770T

7.5HP, 1770RPM, 3PH, 60HZ, 213TZ, 0738M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213TZ
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
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	9.500 A @ 460.0 V 19.800 A @ 208.0 V 19.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	F
Type	AC
Mech. spec.	07N230
Base	
Status	PRD/A
Elec. spec.	07WGX790
Layout	07LYN230
Eff. date	11-27-2024
CD Diagram	CD0005
Poles	04
Leads	9#14 72" LONG Y
Proprietary	False
Created date	05-19-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0738M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.45 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3126L									
CAT.NO.	EGDM3770T								
SPEC.	07N230X790G1								
HP	7.5								
VOLTS	208-230/460								
AMP	19.8-19/9.5								
RPM	1770								
FRAME	213TZ		HZ	60			PH	3	
SER.F.	1.15	CODE	J	DES	A	CL	F		
NEMA-NOM-EFF	91.7	PF	81						
RATING	40C AMB-CONT								
CC	010A								
DE	6307		ODE	6206					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 35558

Typical performance - not guaranteed values

Winding: 07WGX790-R011			Type: 0738M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		7.5	Full Load Torque		22.2 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		19.8-19/9.5	Breakdown Torque		70.9 LB-FT	
R.P.M.		1770	Pull-up Torque		32.7 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		43 LB-FT	
NEMA Design Code		A KVA Code	Starting Current		70.8 A	
Service Factor (S.F.)		1.15	No-load Current		4.3 A	
NEMA Nom. Eff.		91.7 Power Factor	Line-line Res. @ 25°C		1.41 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		41°C	
S.F. Amps			Temp. Rise @ S.F. Load		50°C	
			Locked-rotor Power Factor		37.2	
			Rotor inertia		0.934 LB-FT2	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	87.5	91.6	92.5	91.8	91.1	90.1	91.1
Speed	1793	1786	1778	1770	1760	1750	1764
Line amperes	4.83	6.02	7.6	9.5	11.6	13.9	10.7

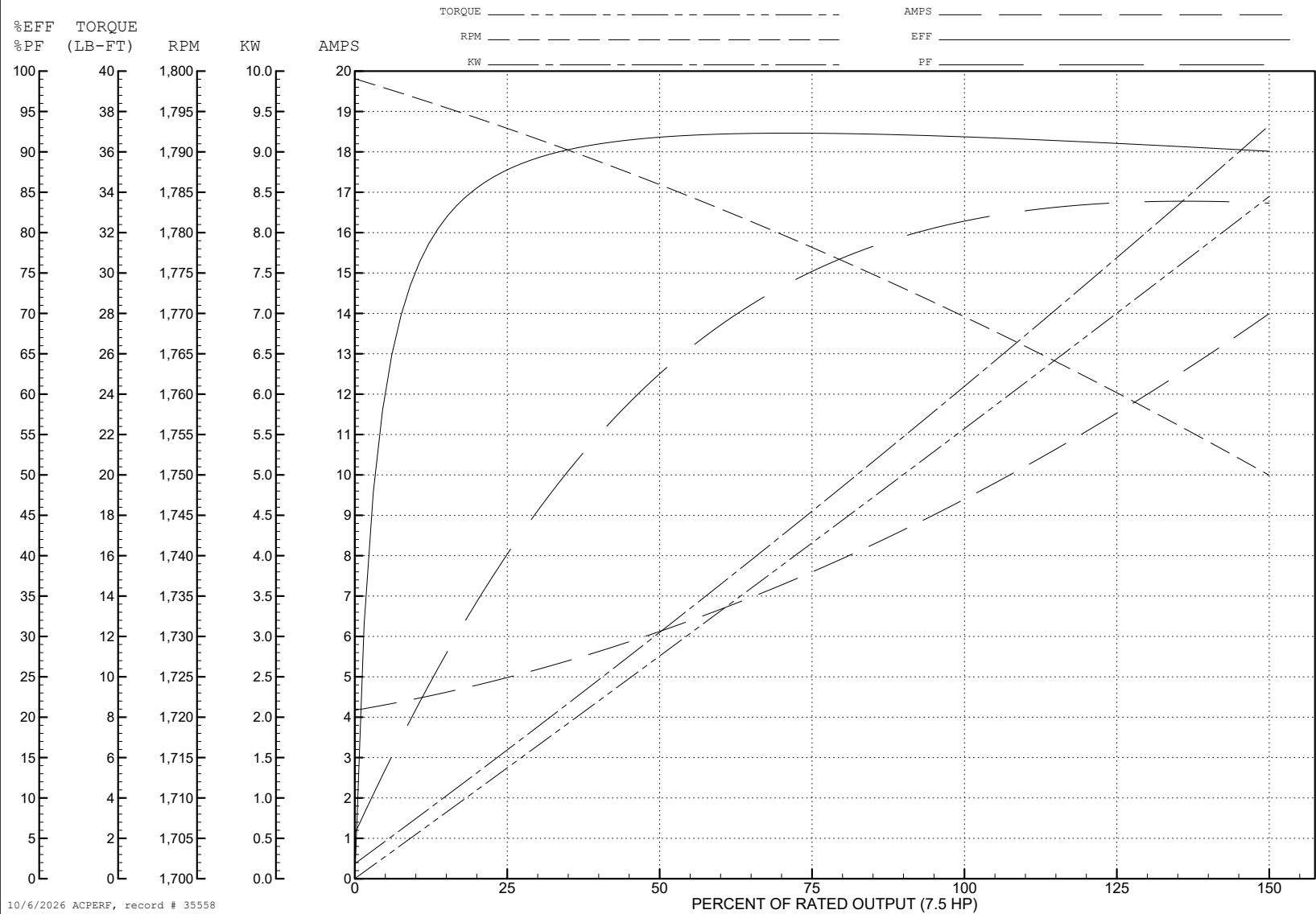
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WINDING # 07WGX790

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 0738M

TORQUES (LB-FT): PO=70.9 PU=32.7 LR=43 LRA=70.8



AC Induction Motor Performance Data

Record # 40157

Typical performance - not guaranteed values

Winding: 07WGX790-R011			Type: 0738M		Enclosure: TEFC		
Nameplate Data			208 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		7.5	Full Load Torque		22.2 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		19.8-19/9.5	Breakdown Torque		57.4 LB-FT		
R.P.M.		1770	Pull-up Torque		26.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		34.3 LB-FT	
NEMA Design Code		A	KVA Code		J		
Service Factor (S.F.)		1.15	Starting Current		126 A		
NEMA Nom. Eff.		91.7	Power Factor		81		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		43°C
S.F. Amps					Temp. Rise @ S.F. Load		55°C
					Locked-rotor Power Factor		36.8
					Rotor inertia		0.934 LB-FT2

Load Characteristics 208 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	72	80	84	85	85	86
Efficiency	89.1	91.9	92.6	91.5	90.4	88.9	90.7
Speed	1792	1783	1774	1764	1751	1739	1756
Line amperes	8.66	11.7	15.6	20.1	25.2	30.7	22.9

ABB Motors and Mechanical Inc.

WINDING # 07WGX790

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 208 V 0738M

TORQUES (LB-FT): PO=57.4 PU=26.1 LR=34.3 LRA=126

