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# Customer information packet

## IDVSM3774T-5

10HP, 1760RPM, 3PH, 60HZ, 215TC, 0748M, GP, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	GP
Frame	215TC
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA 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	9.800 A @ 575.0 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 Shaft Indicator	No Key Or Flat
Heater Indicator	No Heater
High Voltage Full Load Amps	9.8 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H

## Part detail

Revision	-
Type	AC
Mech. spec.	07M288
Base	
Status	PRD/A
Elec. spec.	07WGX493
Layout	07LYM288
Eff. date	11-18-2020
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	11-10-2020

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0748M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.59 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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**

<b>NP3301L</b>			
<b>CAT NO</b>	IDVSM3774T-5		
<b>SPEC.</b>	07M288X493G1		
<b>FRAME</b>	215TC	<b>HP</b>	10
<b>VOLTS</b>	575		
<b>MAG CUR</b>	4.1	<b>FLA</b>	9.8
<b>RPM</b>	1760	<b>RPM MAX</b>	2700
<b>HZ</b>	60	<b>PH</b>	3
		<b>CLASS</b>	F
<b>SER.F.</b>	1.00	<b>SL HZ</b>	1.3
<b>NEMA-NOM-EFF</b>	91.7	<b>WK2</b>	1.18
<b>RATING</b>	40C AMB-CONT		
<b>DE BRG</b>	6307	<b>ODE BRG</b>	6206
<b>CC</b>	010A	<b>SN</b>	
	1.5:1 CHP PWM		

**AC Induction Motor Performance Data**

Record # 106950

Typical performance - not guaranteed values

<b>Winding:</b> 07WGX493-R016		<b>Type:</b> 0748M		<b>Enclosure:</b> XPFC	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	10	<b>Full Load Torque</b>	29.7 LB-FT		
<b>Volts</b>	575	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	9.8	<b>Breakdown Torque</b>	87.4 LB-FT		
<b>R.P.M.</b>	1760	<b>Pull-up Torque</b>	52.1 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	57.7 LB-FT	
<b>NEMA Design Code</b>	A	<b>KVA Code</b>	H	<b>Starting Current</b>	70.9 A
<b>Service Factor (S.F.)</b>	1	<b>No-load Current</b>	4.1 A		
<b>NEMA Nom. Eff.</b>	91.7	<b>Power Factor</b>	83	<b>Line-line Res. @ 25°C</b>	1.44 Ω
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	59°C	
			<b>Locked-rotor Power Factor</b>	35.3	
			<b>Rotor inertia</b>	1.18 lb-ft <sup>2</sup>	

**Load Characteristics 575 V, 60 Hz, 10 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>Power Factor</b>	44	67	78	83	84	85
<b>Efficiency</b>	89.7	92.9	92.9	92.1	91.4	90.2
<b>Speed</b>	1790	1781	1771	1762	1750	1739
<b>Line amperes</b>	4.67	6.02	7.8	9.82	12.2	14.6

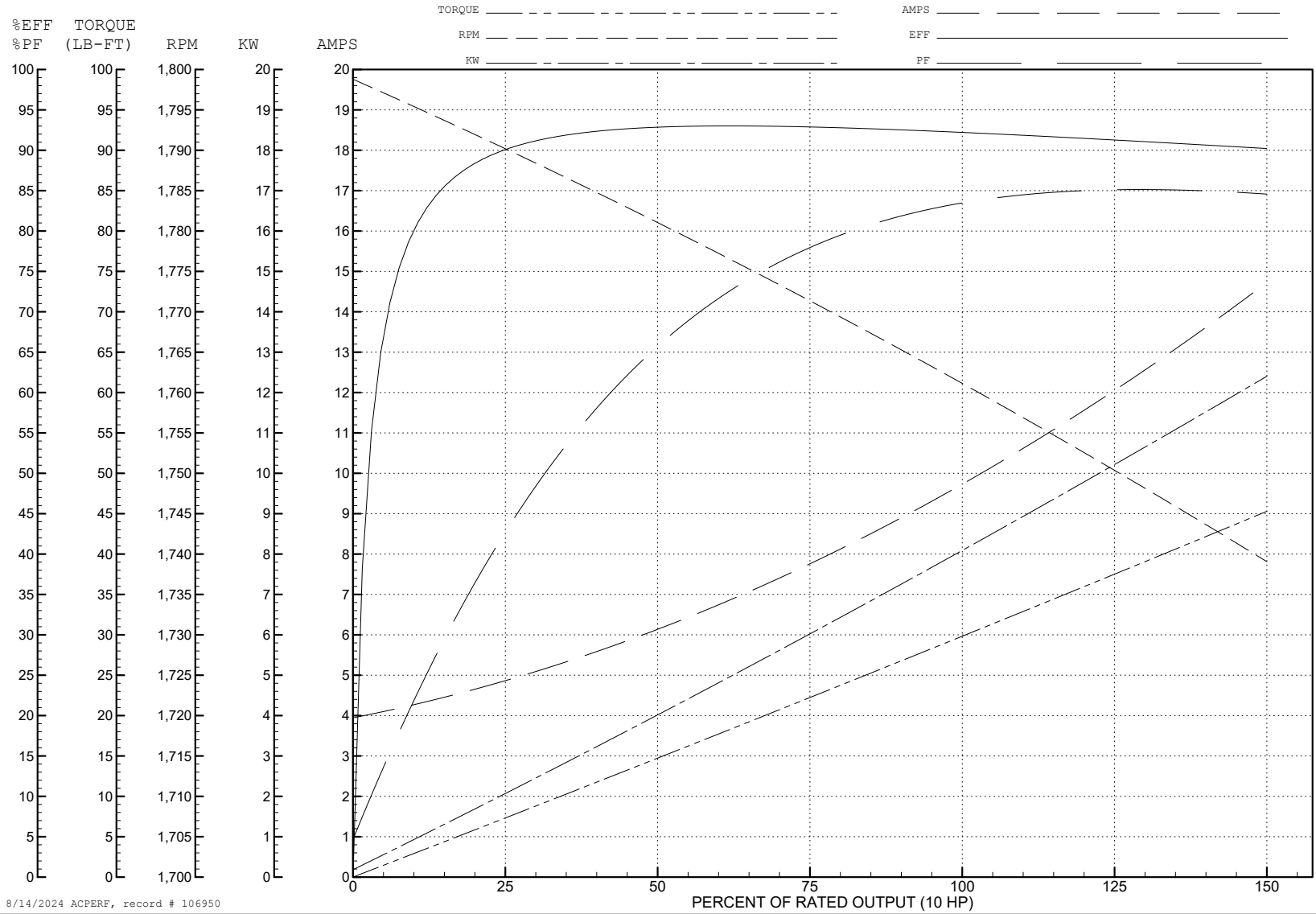
ABB Motors and Mechanical Inc.

WINDING # 07WGX493

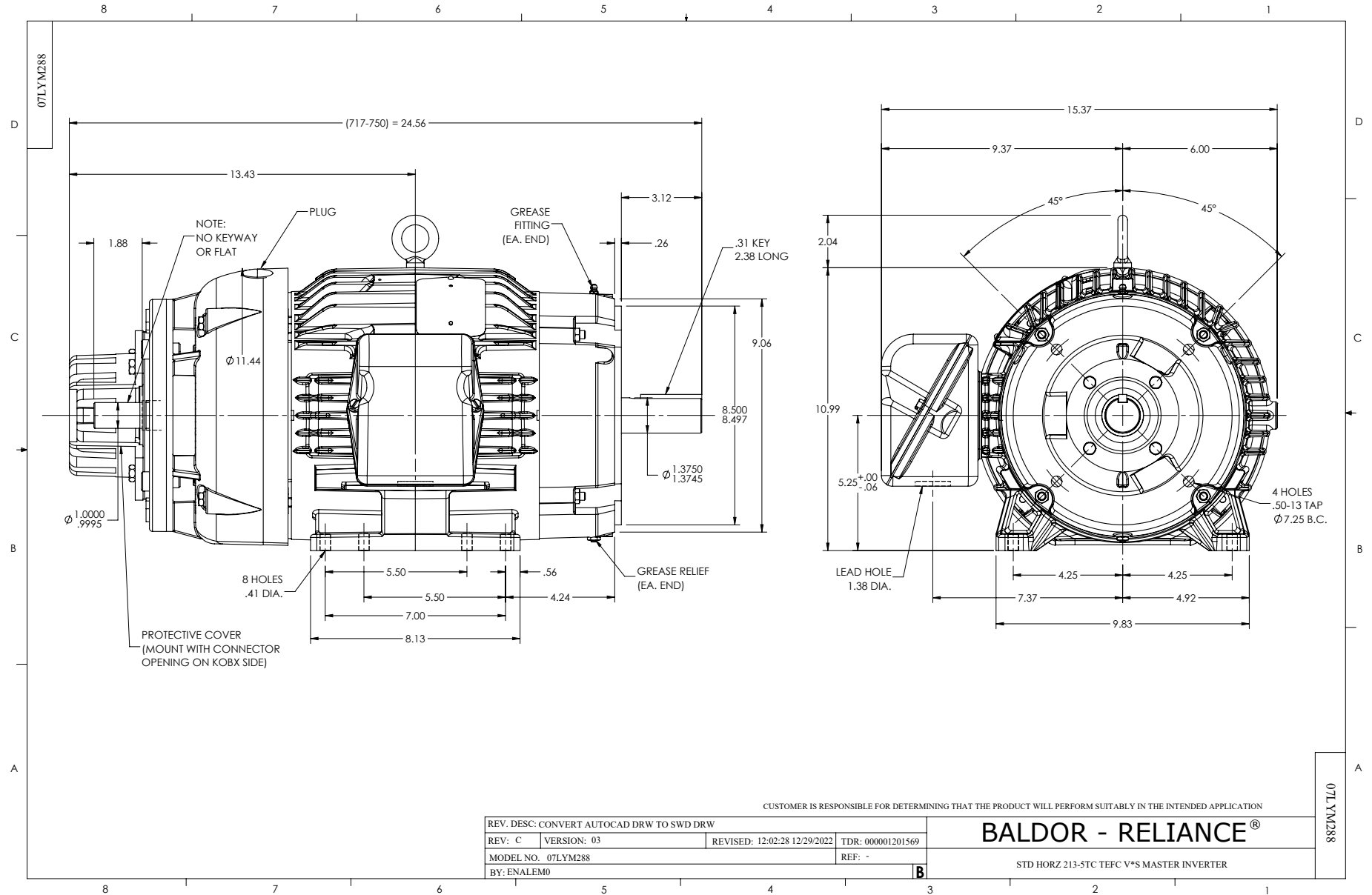
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1760 RPM 575 V 0748M

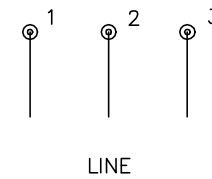
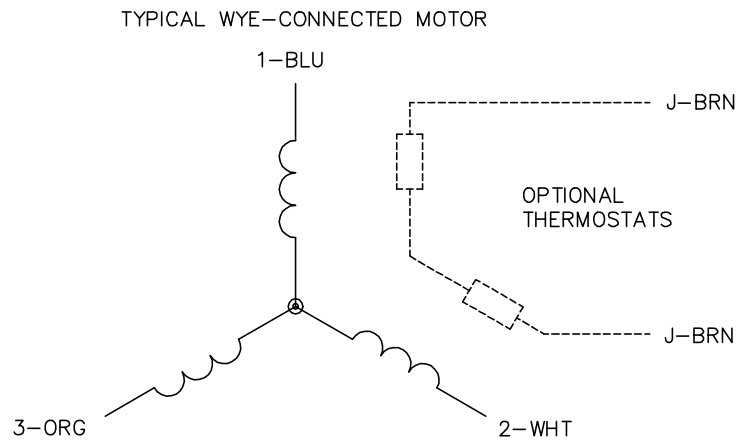
TORQUES (LB-FT): PO=87.4 PU=52.1 LR=57.7 LRA=70.9



8/14/2024 ACPERF, record # 106950



CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
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MTL: -		© □

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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