

ABB BALDOR RELIANCE III

Customer information packet

GNEM3774T

10HP//7.5KW, 1765//1460 1/MINRPM, 3PH, 60//

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 KW @ 50 HZ 10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE UKCA NEMA PREMIUM (OLD LOGO) NEMA PREMIUM IE3 CURUS CE
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	29.400 A @ 190.0 V 26.400 A @ 208.0 V

Part Detail

Revision	E
Type	AC
Mech. spec.	07H002
Base	
Status	PRD/A
Elec. spec.	07WGX598
Layout	07LYH002
Eff. date	05-06-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	04-11-2023

24.600 A @ 230.0 V

14.700 A @ 380.0 V

12.300 A @ 460.0 V

Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0750M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.45 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1460 rpm
	1765 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

NP4304L									
CAT.NO.	GNEM3774T								
SPEC.	07H002X598G1								
HP	10HP/7.5KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	26.4-24.6/12.3//29.4/14.7								
R.P.M. (1/MIN)	1765//1460					WT.	89KG		KG
FRAME	215T		HZ	60//50		I.P.	44		
SER.F.	1.15	CODE	J	DES.	A	CLASS	F		
NOM.EFF.	92.4//90.4		% (100%)						
P.F.	81	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6307		ODE	6206					
ENCL	TEFC	SN							
	SFA 30.4-28.4/14.2//33.8/14.7								
	IE3-50HZ 92.0(75%),93.6(50%)								
	IE3-60HZ 92.5(75%),93.6(50%)								

AC Induction Motor Performance Data

Record # 99269

Typical performance - not guaranteed values

Winding: 07WGX598-R038		Type: 0750M	Enclosure: TEFC
Nameplate Data		460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	10HP//7.5KW	Full Load Torque	29.7 LB-FT
Volts	208-230/460//190/380	Start Configuration	direct on line
Full Load Amps	26.4-24.6/12.3//29.4/14.7	Breakdown Torque	94.2 LB-FT
R.P.M.	1765//1460	Pull-up Torque	56.3 LB-FT
Hz	60//50 Phase	Locked-rotor Torque	62.4 LB-FT
NEMA Design Code	A KVA Code	Starting Current	95.7 A
Service Factor (S.F.)	1.15	No-load Current	5.6 A
NEMA Nom. Eff.	92.4 Power Factor	Line-line Res. @ 25°C	0.866 Ω
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	55°C
S.F. Amps	30.4-28.4/14.2//33.8/14.7	Temp. Rise @ S.F. Load	67°C
		Locked-rotor Power Factor	35.2
		Rotor inertia	1.23 lb-ft ²

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	64	76	81	84	85	83
Efficiency	89.8	93.5	92.5	92.2	91.3	90.1	91.7
Speed	1790	1782	1772	1764	1753	1743	1757
Line amperes	6.28	7.9	10	12.5	15.3	18.3	14.2

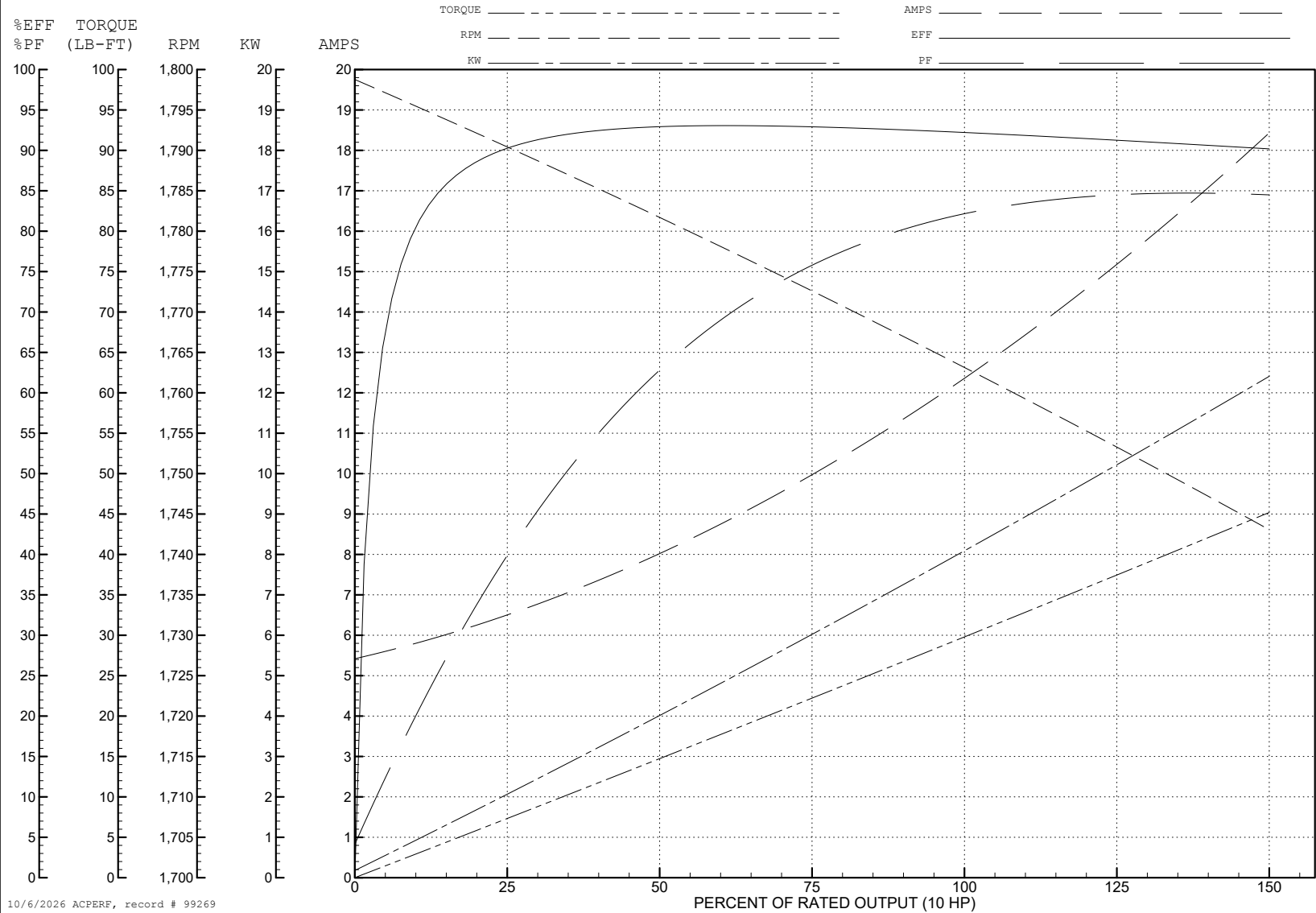
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WINDING # 07WGX598

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1764 RPM 460 V 0750M

TORQUES (LB-FT) : PO=94.2 PU=56.3 LR=62.4 LRA=95.7



AC Induction Motor Performance Data

Record # 99270

Typical performance - not guaranteed values

Winding: 07WGX598-R038		Type: 0750M	Enclosure: TEFC	
Nameplate Data			380 V, 50 Hz: High Voltage Connection	
Rated Output (KW)	10HP//7.5KW		Full Load Torque	36.13 LB-FT
Volts	208-230/460//190/380		Start Configuration	direct on line
Full Load Amps	26.4-24.6/12.3//29.4/14.7		Breakdown Torque	89.9 LB-FT
R.P.M.	1765//1460		Pull-up Torque	58.1 LB-FT
Hz	60//50	Phase 3	Locked-rotor Torque	64.4 LB-FT
NEMA Design Code	A	KVA Code J	Starting Current	92.9 A
Service Factor (S.F.)	1.15		No-load Current	5.49 A
NEMA Nom. Eff.	92.4	Power Factor 81	Line-line Res. @ 25°C	0.866 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	72°C
S.F. Amps	30.4-28.4/14.2//33.8/14.7		Temp. Rise @ S.F. Load	90°C
			Locked-rotor Power Factor	35.2
			Rotor inertia	1.23 lb-ft²

Load Characteristics 380 V, 50 Hz, 7.5 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	81	84	86	86	85
Efficiency	91.1	93.7	92	91	89.6	87.8	90.2
Speed	1489	1480	1469	1460	1447	1435	1452
Line amperes	6.44	8.63	11.48	14.81	18.51	22.6	17

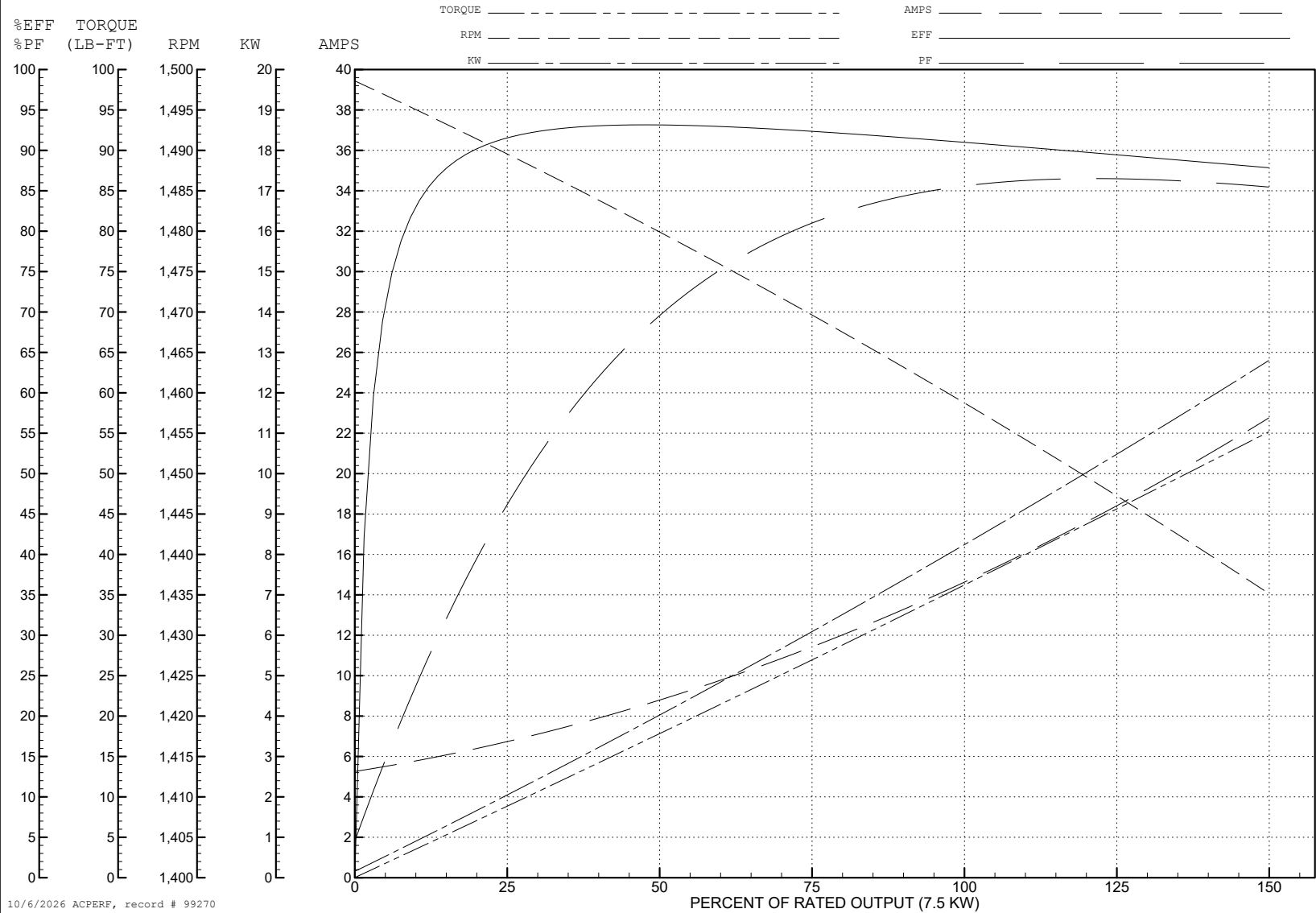
ABB Motors and Mechanical Inc.

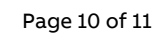
WINDING # 07WGX598

Typical performance - not guaranteed values.

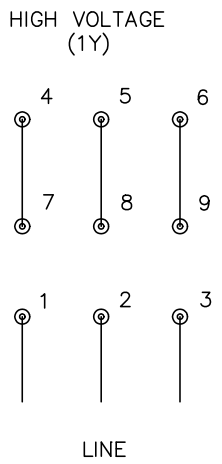
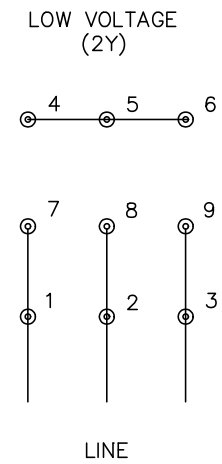
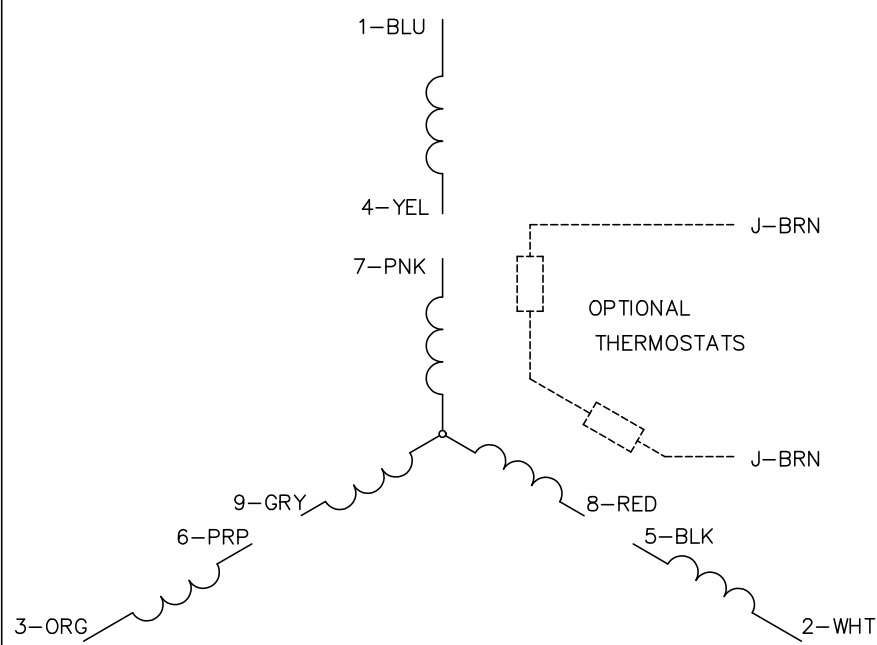
7.5 KW 3 PH 50 HZ 1460 RPM 380 V 0750M

TORQUES (LB-FT): PO=89.9 PU=58.1 LR=64.4 LRA=92.9





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005