

ABB BALDOR RELIANCE III

Customer information packet

EM3618T

1.5HP, 855RPM, 3PH, 60HZ, 184T, 3646M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV NEMA PREMIUM (OLD LOGO)
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	3.000 A @ 460.0 V 6.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	J
Type	AC
Mech. spec.	36A001
Base	
Status	PRD/A
Elec. spec.	36WGN164
Layout	36LYA001
Eff. date	05-20-2025
CD Diagram	CD0005
Poles	08
Leads	9#16
Proprietary	False
Created date	08-21-2017

High Voltage Full Load Amps	3.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	18.04 IN
Power Factor	61
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	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	855 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

NP1259L									
CAT.NO.	EM3618T								
SPEC.	36A001N164G1								
HP	1.5								
VOLTS	230/460								
AMP	6/3								
RPM	855								
FRAME	184T		HZ	60			PH	3	
SER.F.	1.15	CODE	K	DES	B	CL	F		
NEMA-NOM-EFF	78.5	PF	61						
RATING	40C AMB-CONT								
CC	010A								
DE	6206		ODE	6205					
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 67026

Typical performance - not guaranteed values

Winding: 36WGN164-R001			Type: 3646M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		1.5		Full Load Torque		9.309 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		6/3		Breakdown Torque		31.1 LB-FT	
R.P.M.		855		Pull-up Torque		23.1 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		29.5 LB-FT	
NEMA Design Code		B	KVA Code	Starting Current		15 A	
Service Factor (S.F.)		1.15		No-load Current		2.11 A	
NEMA Nom. Eff.		78.5	Power Factor	61		Line-line Res. @ 25°C	8.9864 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		61°C	
S.F. Amps				Temp. Rise @ S.F. Load		75°C	
				Locked-rotor Power Factor		42.7	

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	41	52	61	68	72	65
Efficiency	66.5	76.5	78.8	78.6	76.9	74.3	77.6
Speed	889.4	879.1	867.8	855.3	840	822.1	846
Line amperes	2.15	2.34	2.6	2.95	3.41	3.95	3.23

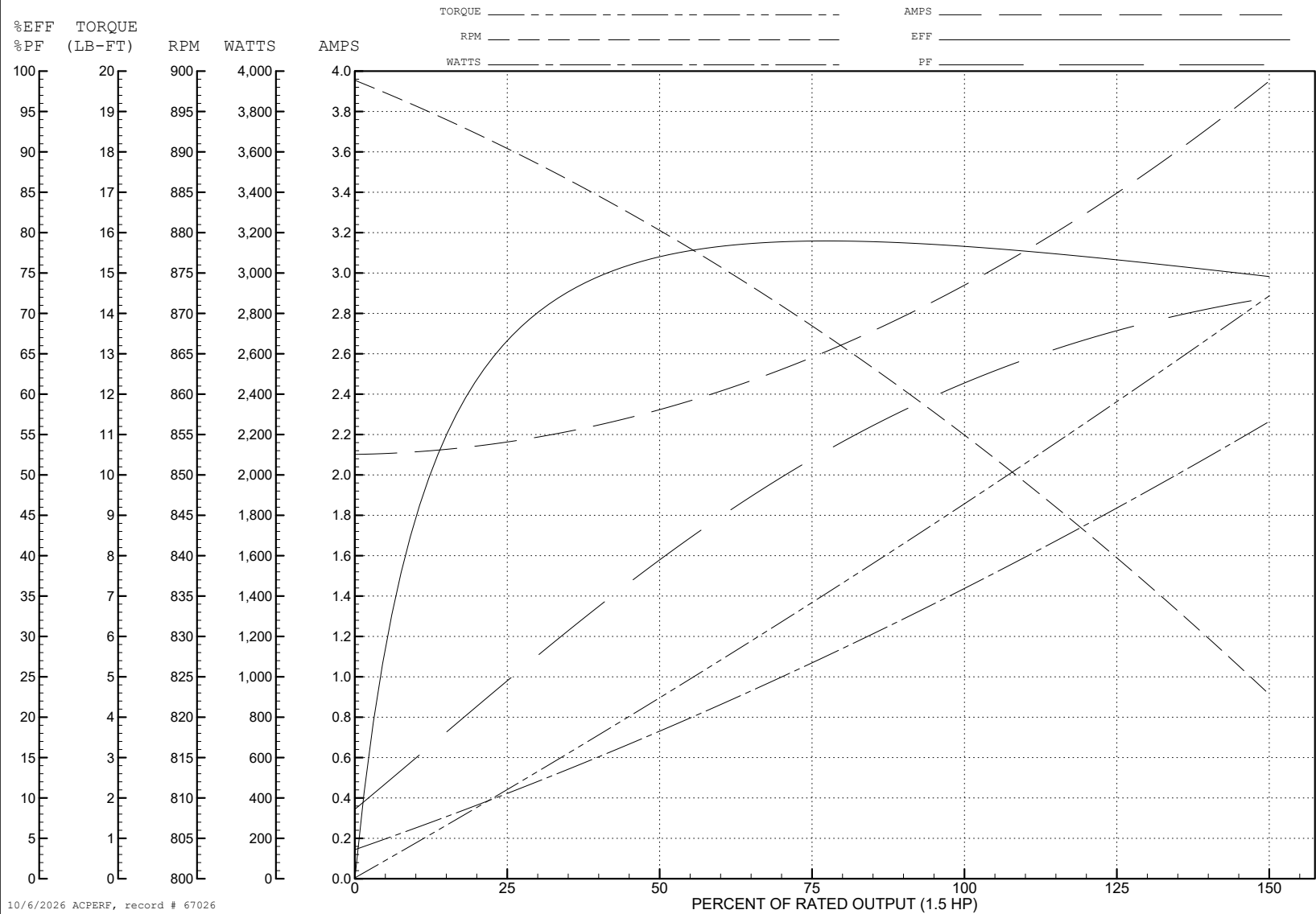
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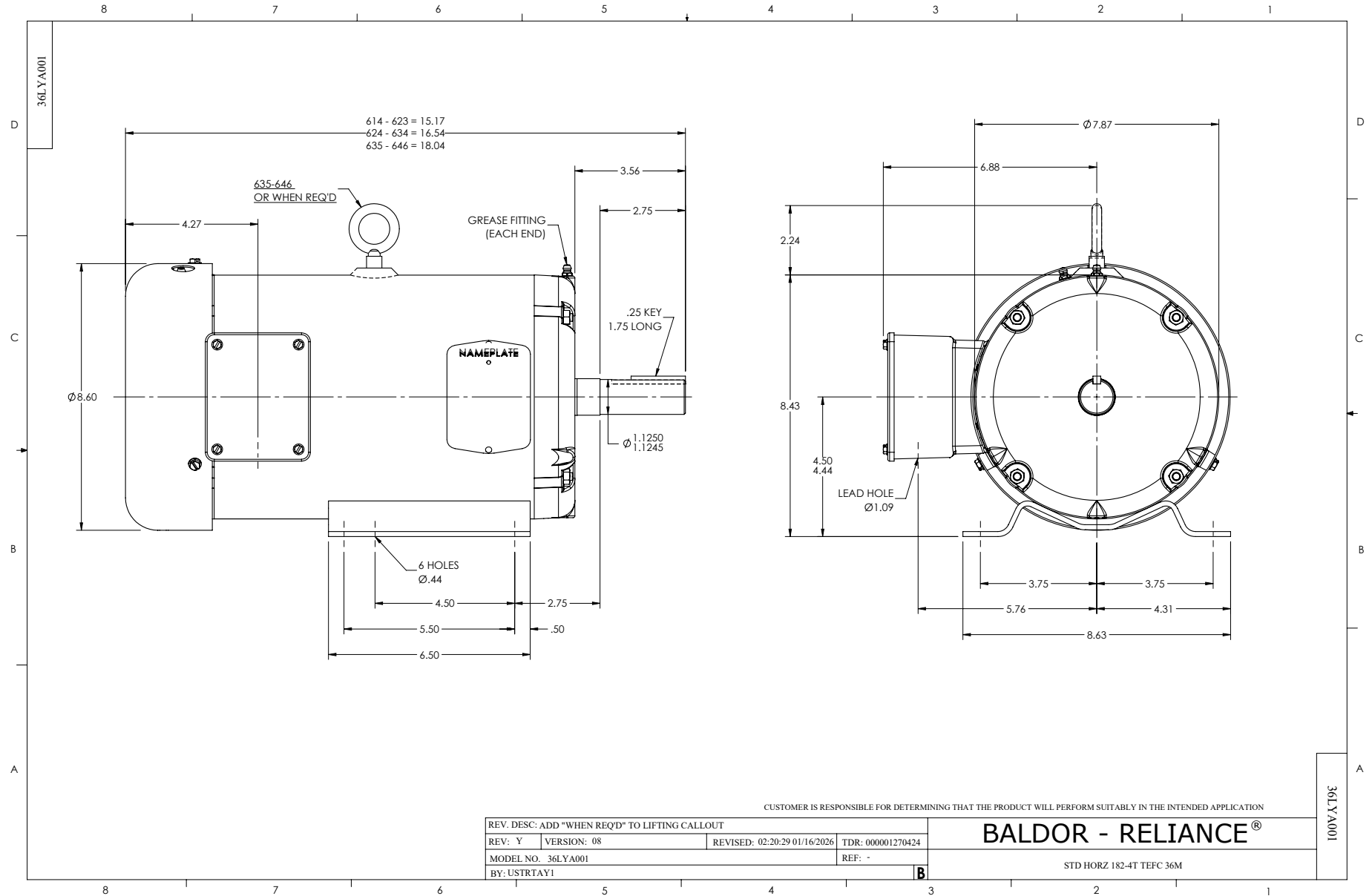
WINDING # 36WGN164

Typical performance - not guaranteed values.

1.5 HP 3 PH 60 HZ 855 RPM 460 V 3646M

TORQUES (LB-FT): PO=31.1 PU=23.1 LR=29.5 LRA=15







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.

3PH, DV, 9 LEADS