

ABB BALDOR RELIANCE III

Customer information packet

VSPM2513T

15HP, 1770RPM, 3PH, 60HZ, 254TC, 3958M, OPSB, F

Class - None

Division - Not Applicable

Specifications

Enclosure	OPSB
Frame	254TC
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM 4 WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	18.300 A @ 460.0 V 36.600 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	18.3 a

Part Detail

Revision	B
Type	AC
Mech. spec.	39E764
Base	
Status	PRD/A
Elec. spec.	39WGY450
Layout	39LYE764
Eff. date	12-12-2025
CD Diagram	CD0180
Poles	04
Leads	9#12 Y
Proprietary	False
Created date	11-16-2023

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3958M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.20 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP4423A01A05L															
CAT #	VSPM2513T					WGT	242		LBS						
SPEC	39E764Y450					ENCL	OPSB								
SER #						CC	010A		IP	23					
HP	15					MAG CUR	15.2/7.6								
VOLTS	230/460					NEMA NOM. EFF					93.6				
AMPS	36.6/18.3						PF	82							
RATING	40C AMB-CONT														
RPM	1770					MAX RPM		2700							
FRAME	254TC		HZ	60		CODE	J		CLASS	F					
SER.F.	1.15		SF AMP	42/21			PH	3		DES	A				
DE	6309			ODE	6208										
LUBRICATION	POLYREX EM														
ID LOGO	INVERTER TYPE				VPWM		CHP	1.5		TO	1		1.5:1		
ID LOGO	WK2	2.54		CT	10		TO	1		10:1					
ID LOGO	SL HZ	1		VT	20		TO	1		20:1					
							QR								
YR															

AC Induction Motor Performance Data

Record # 114780

Typical performance - not guaranteed values

Winding: 39WGY450-R001			Type: 3958M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		15		Full Load Torque		44.37 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		36.6/18.3		Breakdown Torque		216 LB-FT
R.P.M.		1770		Pull-up Torque		102 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		128 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		174 A
Service Factor (S.F.)		1.15		No-load Current		9.46 A
NEMA Nom. Eff.		93.6	Power Factor	Line-line Res. @ 25°C		0.41963 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		23°C
S.F. Amps		42/21		Temp. Rise @ S.F. Load		30°C
				Locked-rotor Power Factor		31.4
				Rotor inertia		2.54 lb-ft²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	61	73	79	83	85	83
Efficiency	88.4	92.8	93.9	94.1	93.9	93.5	93.9
Speed	1795.9	1790.9	1786.2	1781.1	1776.1	1770.5	1776
Line amperes	10.4	12.6	15.4	18.8	22.5	26.4	22.5

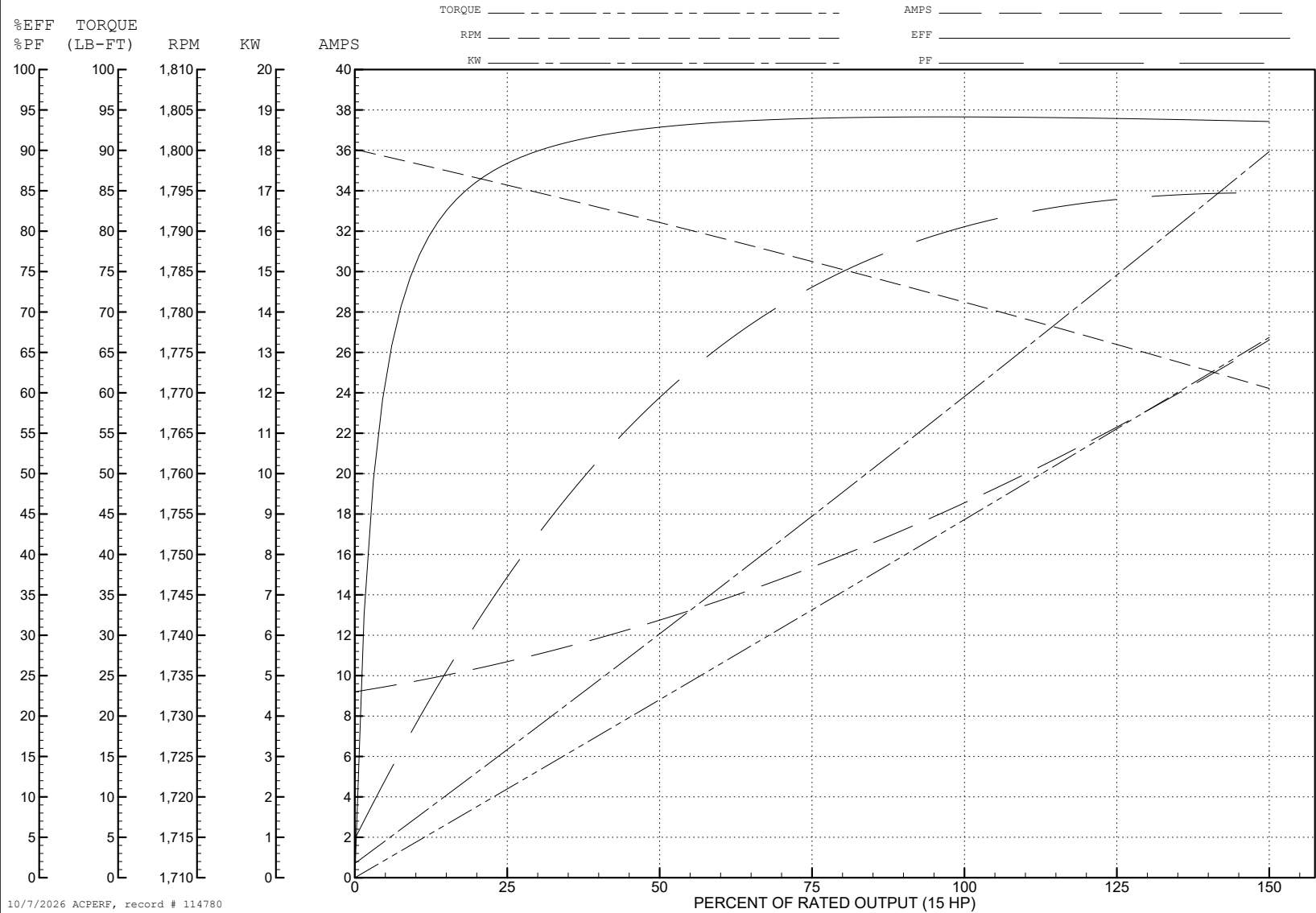
ABB Motors and Mechanical Inc.

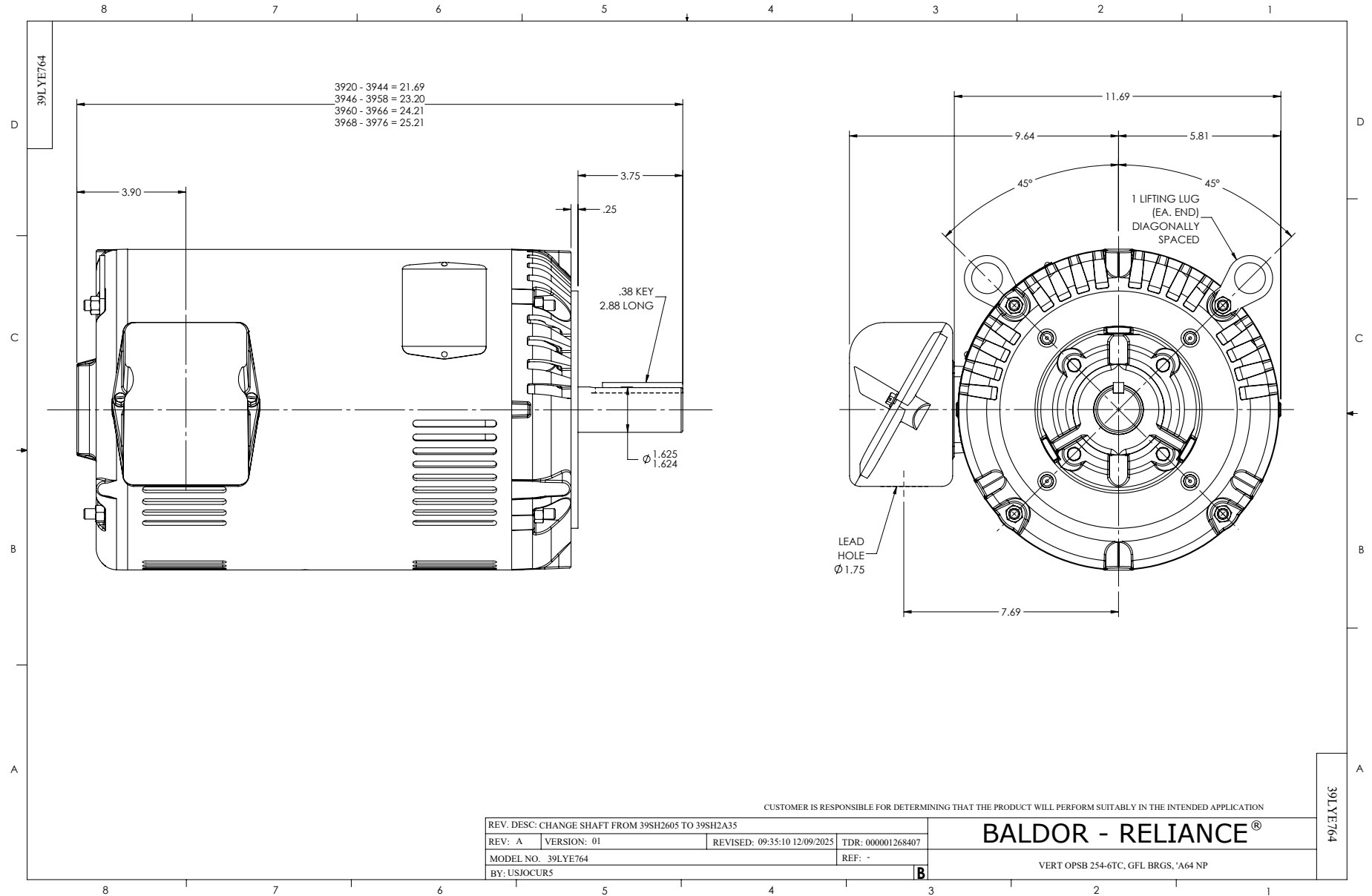
WINDING # 39WGY450

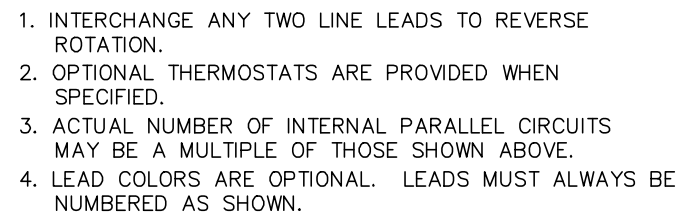
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15 HP 3 PH 60 HZ 1770 RPM 460 V 3958M

TORQUES (LB-FT): PO=216 PU=102 LR=128 LRA=174





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