

ABB BALDOR RELIANCE III

Customer information packet

VHECP4310T

60HP, 3550RPM, 3PH, 60HZ, 364HP, 1452M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	364HP
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	60.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Bracket Mounted
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	65.100 A @ 460.0 V 130.000 A @ 230.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	65.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG

Part Detail

Revision	G
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0760
Layout	617428-035
Eff. date	08-12-2025
CD Diagram	416820-002
Poles	02
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A36056M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	35.36 IN
Power Factor	91
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3560 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EW												
CAT.NO.	VHECP4310T					SPEC NO.		P36G3416				
HP	60	AMPS		130/65.1		VOLTS		230/460		DESIGN		B
FRAME	364HP	RPM	3560		HZ		60	AMB	40	SF	1.15	
DRIVE END BEARING	65BC03J30X			PH	3	DUTY	CONT		INSUL.CLASS		F	
OPP D.E. BEARING	65BC03J30X			TYPE	P	ENCL	TEFC		CODE	G		
D.E.BRG.DATA	6313			POWER FACTOR			90.7		NEMA NOM EFFICIENCY			95
O.D.E.BRG.DATA	6313			MAX CORR KVAR			05.0		GUARANTEED EFFICIENCY			94.5
3/4 LOAD EFF.	95	NEMA NOM/CSA QUOTED EFF										
SER.NO.						MOTOR WEIGHT						

000901002AAA	
SUIT FOR 208 V AT 144 AMPS	

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET					VHECP4310T - 60HP, 3550RPM, 3PH, 60HZ, 364HP, 1452M, TEFC, F				
		FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS				
		364HP	60	P	3/60	3560	230/460				
AMPS	DUTY	AMB °C/ INSUL		S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE				
130/65.1	CONT	40/F		1.15	F	G	TEFC				
E/S	ROTOR	TEST S.O.		TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)						
491281	418141005XE	---		---	.0254/.101						
PERFORMANCE											
LOAD	HP	AMPERES		RPM	% POWER FACTOR		% EFFICIENCY				
NO LOAD	0	14.1		3600	6.54		0				
1/4	15.0	20.8		3590	72.8		93.1				
2/4	30.0	33.4		3580	88.2		95.3				
3/4	45.0	48.6		3570	90.7		95.5				
4/4	60.0	65.1		3559	90.7		95.1				
5/4	75.0	82.2		3547	90.3		94.5				
SPEED TORQUE											
		RPM		TORQUE % FULL LOAD		TORQUE LB.-FT.		AMPERES			
LOCKED ROTOR		0		203		180		435			
PULL UP		1565		176		156		355			
BREAKDOWN		3397		233		206		212			
FULL LOAD		3559		100		88.5		65.1			
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.											
TYPICAL DATA											
XE MOTOR-NEMA NOM. EFF. 95.0 %											
GUARANTEED MIN. EFF. 94.5%											
		DRAWN BY: <u>W. L. SMITH</u>			AC MOTOR PERFORMANCE DATA		A36WG0760-R001				
		CHECKED BY: <u>G. R. WEBB</u>									
		APPROVED BY: <u>D. M. BYRD</u>									
		DATE: <u>03/11/02</u>									

FRAME 364HP

RPM 3550

S.F. 1.15

ROTOR 418141005XE F

HP 60

VOLTS 230/460

NEMA DESIGN F

TEST S.O. TYPICAL DATA

TYPE P

AMPS 130/65.1

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

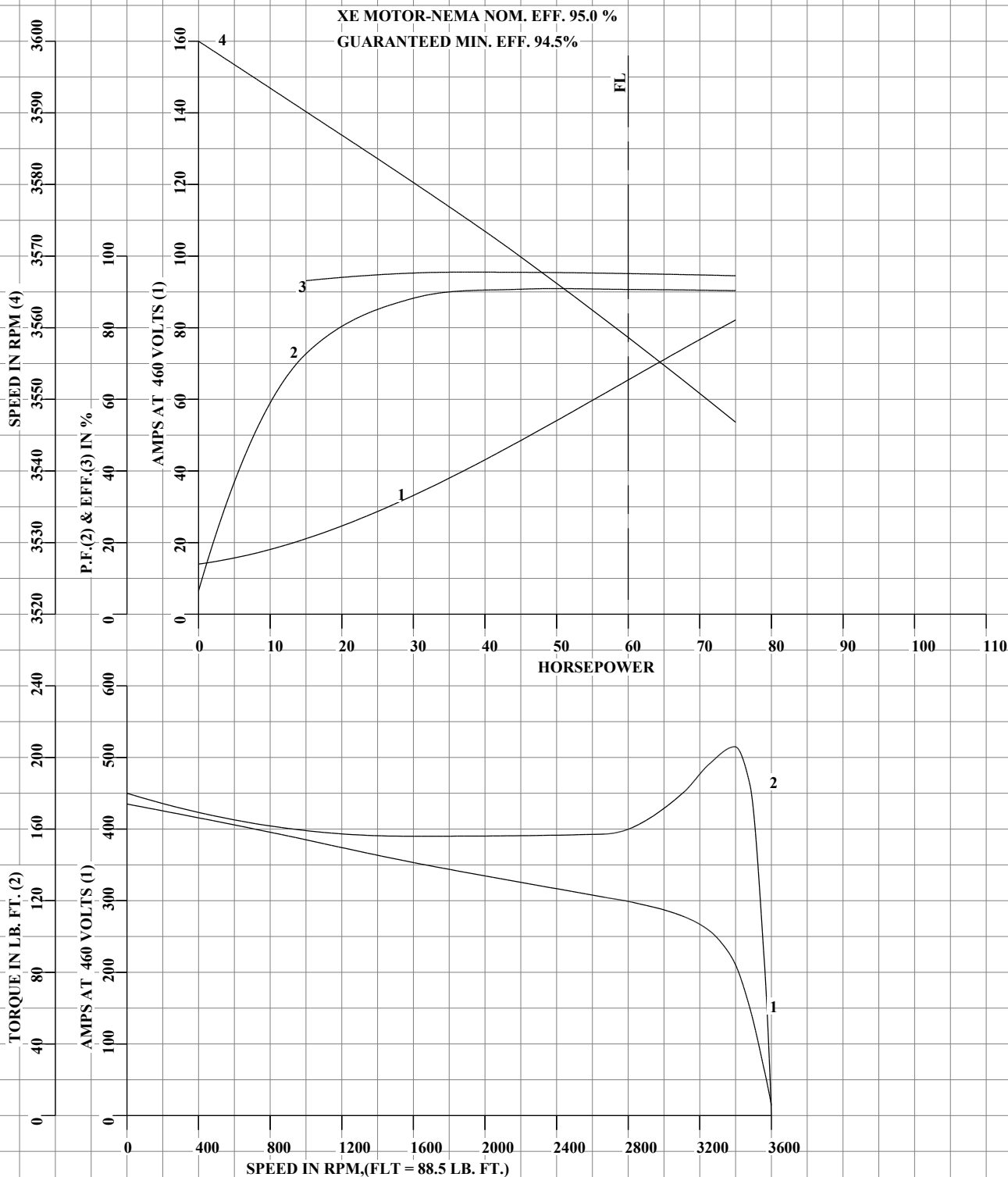
ENCLOSURE TEFC

STATOR RES. @ 25°C .0254/.101

AMB °C / INSUL 40/F

E/S 491281

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DRAWN BY: W. L. SMITH
CHECKED BY: G. R. WEBB
APPROVED BY: D. M. BYRD
DATE: 03/11/02

AC MOTOR
PERFORMANCE
DATA

A36WG0760-R001

ISSUE DATE 09/26/18

FRAME 364HP

RPM 3550

S.F. 1.15

ROTOR 418141005XE F

HP 60

VOLTS 230/460

NEMA DESIGN F

TEST S.O. TYPICAL DATA

TYPE P

AMPS 130/65.1

CODE LETTER G

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

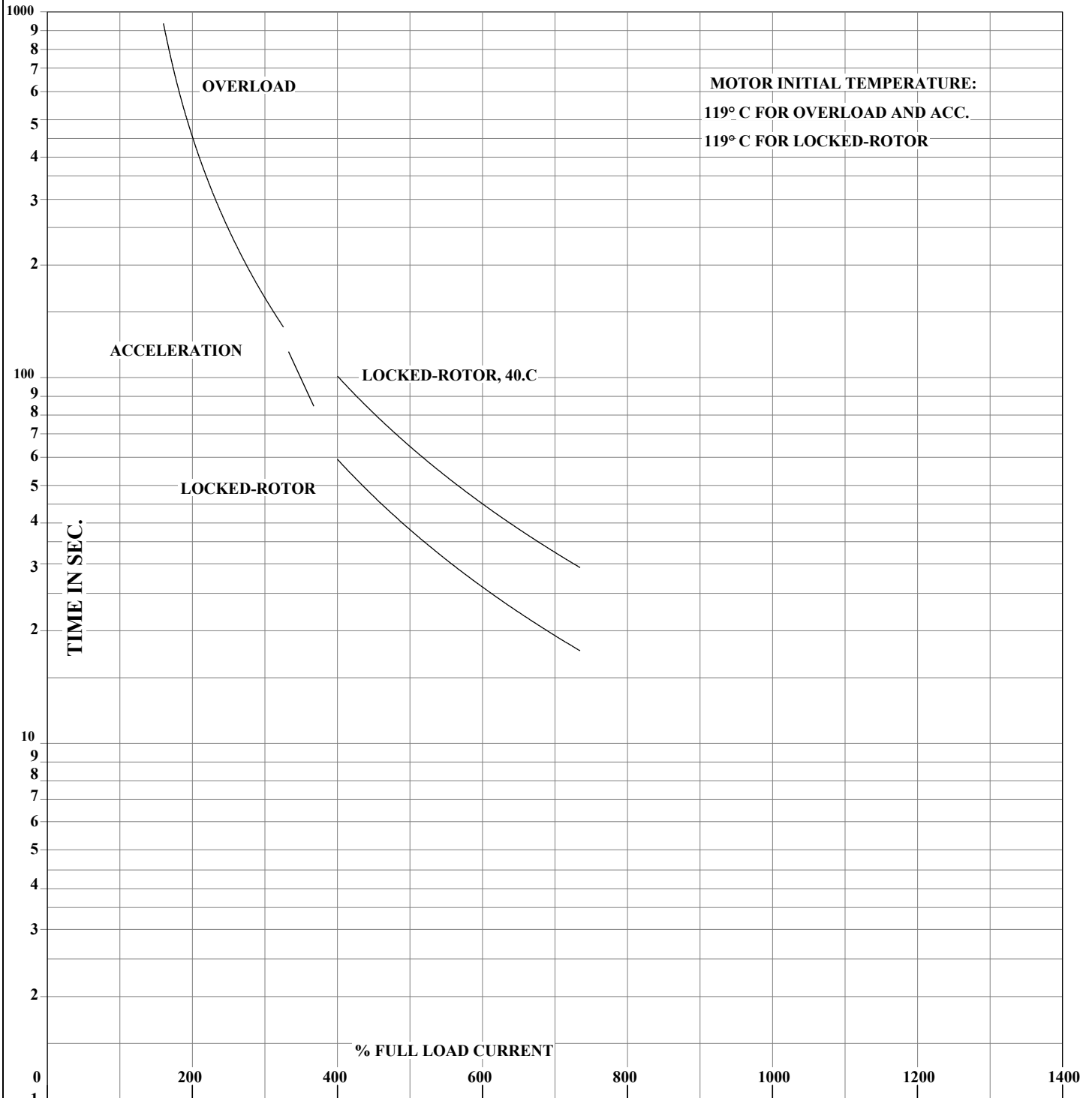
ENCLOSURE TEFC

STATOR RES. @ 25°C .0254/.101

AMB °C / INSUL 40/F

E/S 491281

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

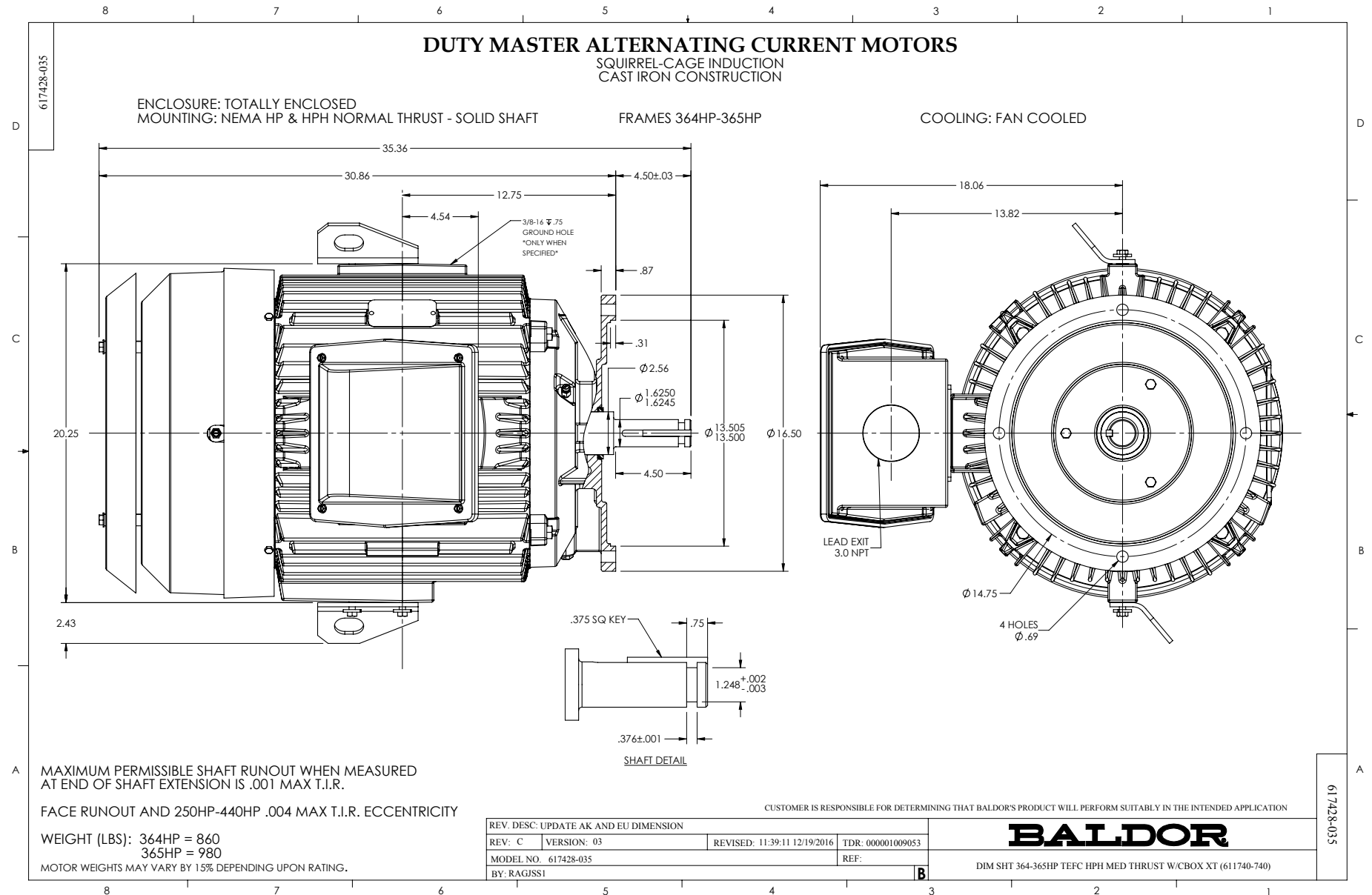


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AC MOTOR
PERFORMANCE
DATA

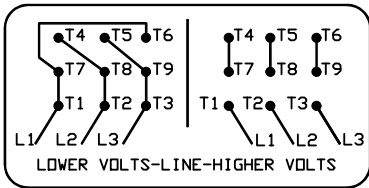
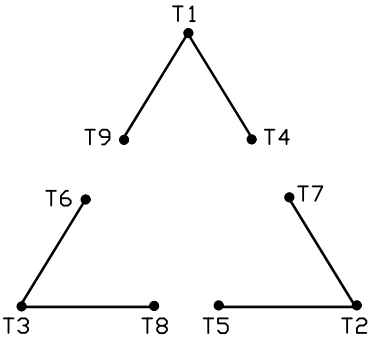
A36WG0760-R001

ISSUE DATE 09/26/18



416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED



(N. P. 1575-B)

416820-002

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: -		



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1