ABB BALDOR RELIANCE

Customer information packet

IDVSM4314T

60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT,
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	364T
Frame Material	Iron
Frequency	60.00 Hz
	90.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	60.000 HP @ 60 HZ
	60.000 HP @ 90 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 90 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	460.0 V @ 90 HZ
	230.0 V @ 90 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	1000:1
Current @ Voltage	71.200 A @ 460.0 V
	69.100 A @ 460.0 V
	142.000 A @ 230.0 V
	138.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	69.1 a

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4074
Layout	617431-412
Eff. date	07-23-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	NEMA
Motor Type	A36062M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	33.44 IN
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
	2675 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007HV

CAT NO	IDVSM4314T			**SPEC NO.**	P36G3221							
SER.NO.				**FRAME**	364T							
	HP	**RPM**	**VOLTS**	**AMPS**		**HZ**	**TYPE**	P				
BASE	60	1785	230/460	142/71		60	**SF**	1.00				
MAX	60	2675	230/460	136/68		90	**INSUL.CLASS**	F				
DRIVE END BEARING	65BC03J30X		**CONSTANT TORQUE**		**DUTY**	CONT	**AMB**	40				
OPP D.E. BEARING	65BC03J30X		1000:1	**ENCL**	TEFC	**PHASE**	3					
DESIGN NO.	A36WG4074-R002		**FLUX AMPS**	54/27		**VPWM INVERTER READY**						
MAX SPEED/RPM	3600		**OVERTEMP PROT**	2	**WK2**	14.32	**POLES**	4	**WEIGHT**			

Parts List

Part number	Description	Quantity
SA209352	SA P36G3221	1.000 ea
RA196614	RA P36G3221	1.000 ea
000613007HV	N/P BALDOR VSMASTER, CURUS	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
004824015A	GREASE POLYREX EM	0.544 lb
032018008AK	HHCS 1/4-20X1 PLATED	4.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
034530052AB	P/NIP 1/8X6-1/2 Zinc	1.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
702676001C	FAN 360	1.000 ea
078559001A	+FANCV - 360	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
410700004F	WSHR	1.000 ea
415072001B	CLAMP	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
412118006A	DRAIN	1.000 ea
412118006A	DRAIN	1.000 ea
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 ea
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 ea
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 ea
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 ea
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
043292000AJ	GASK 320-400	1.000 ea

077176000L	C/BOX, PAINTED 440	1.000 ea
077176001A	CBOX Cover 360-400	1.000 ea
402731001A	GASK 360-440	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
418150003A	GREASE FITTING CAP	1.000 ea
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.250 ga
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.063 ga
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	142/71//136/68	Base Volt	460	R1	0.052	X1	0.286
HP	60	NL AMPS	27.38	R2	0.306	X2	0.113
BASE SPEED	1784	Slip (HZ)	0.53	R2B	0.023	X2B	0.418
PHASE/HZ	3/60	WK^2 (lb-ft^2)	14.300	R2E	0.007	XM	8.590

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1784	59.8	176.0	460	60	70.1
Max Speed	2675	60.1	118.0	460	90	66.8
CT Min Speed	1.784	0.060	176.0	0.46	0.06	70.1

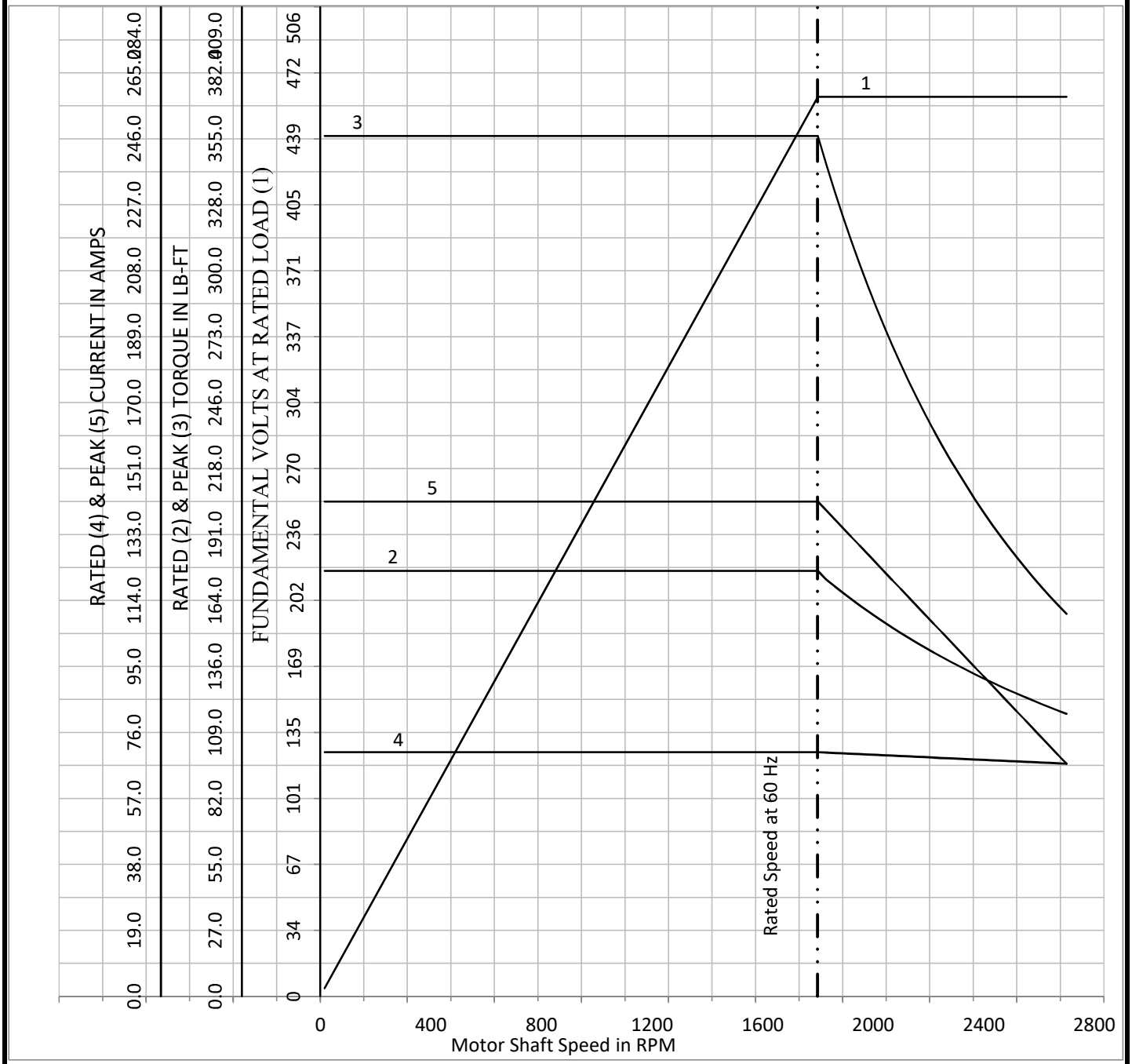
Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	27.4
1/4	1796	15.0	43.7	460	60	32.0
1/2	1792	29.9	87.7	460	60	42.2
3/4	1788	45.0	132.0	460	60	55.4
Full Load	1784	59.8	176.0	460	60	70.1
O/L	1766	119.8	356.0	460	60	142.0

Remarks: Calculated Data

INP AMPS	230/460			WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
	142/71//136/68	Base Volt	460	R1	0.052	X1	0.286
HP	60	NL AMPS	27.38	R2	0.306	X2	0.113
BASE SPEED	1784	Slip (HZ)	0.53	R2B	0.023	X2B	0.418
PHASE/HZ	3/60	WK^2 (lb-ft^2)	14.300	R2E	0.007	XM	8.590

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 8/17/2026

A-C MOTOR PERFORMANCE CURVES

A36WG4074

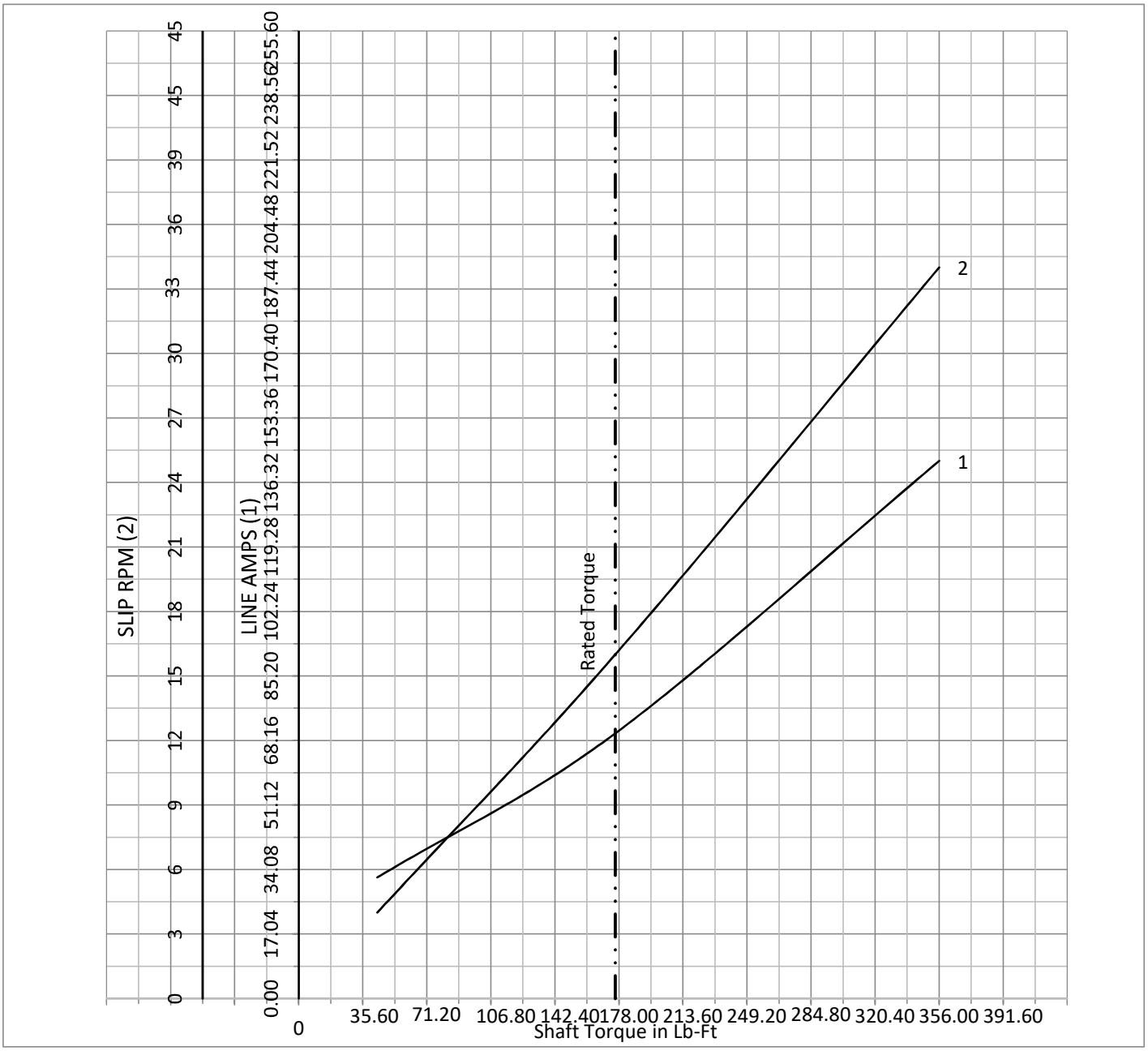
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VOLTS	230/460	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	142/71//136/68	Base Volt	460	R1	0.052	X1	0.286
HP	60	NL AMPS	27.38	R2	0.306	X2	0.113
BASE SPEED	1784	Slip (HZ)	0.53	R2B	0.023	X2B	0.418
PHASE/HZ	3/60	WK2 (lb-ft2)	14.300	R2E	0.007	XM	8.590

IDVSM4314T - 60HP, 1800RPM, 3PH, 60HZ, 364T, TEFC, FOOT,

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

BALDOR • RELIANCE

DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 8/17/2026

A-C MOTOR PERFORMANCE CURVES

A36WG4074

Record: 77714

617431-412

DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED

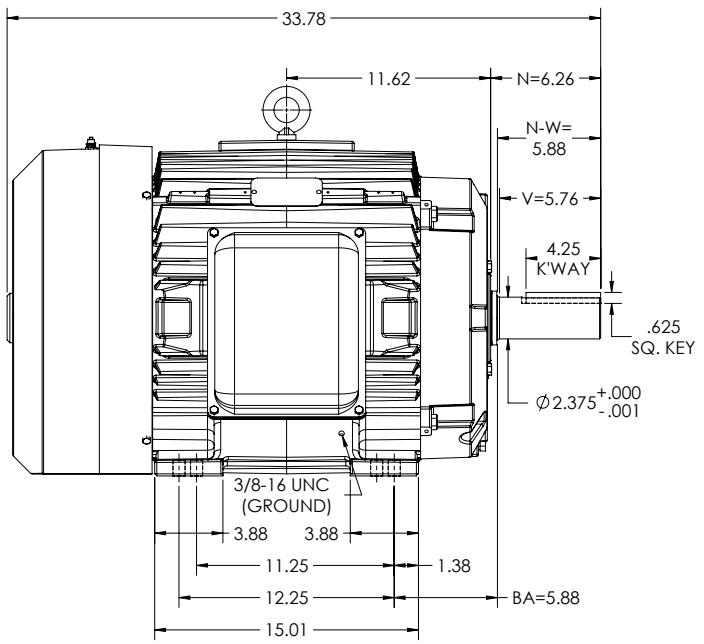
SQUIRREL-CAGE INDUCTION

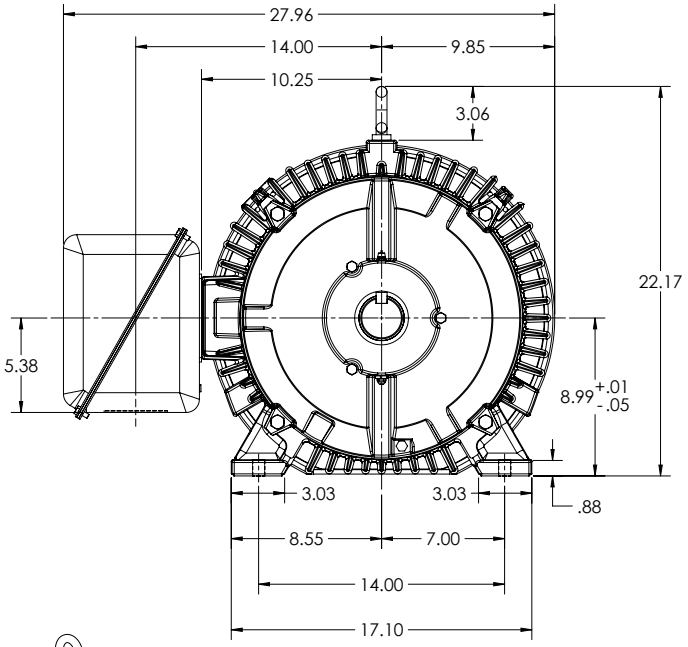
MOUNTING: FOOT, F-1 SIDE

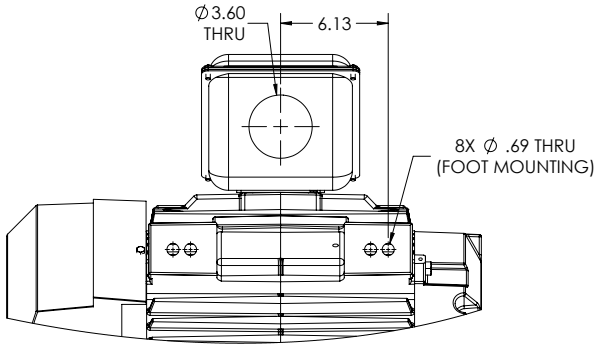
E365T/E364T FRAME MOUNTING

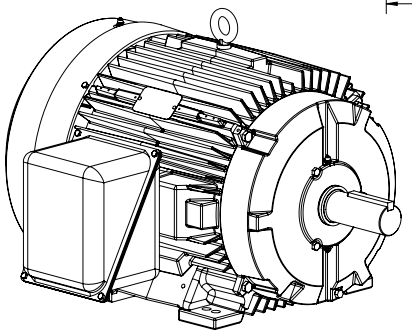
COOLING: FAN COOLED

STEEL CONDUIT BOX









DIMENSIONS ARE IN INCHES.
WEIGHT (LBS.) 800, MOTOR WEIGHT MAY VARY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 2

617431-412

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003" T.I.R.

REV. DESC: UPDATE DS QUALITY			
REV: F	VERSION: 06	REVISED: 01:00:49 01/02/2024	TDR: 000001222947
MODEL NO. 617431-412			
BY: USJEDIL			C

BALDOR

E365/364T TEFC FOOT F1/STEEL CONDUIT BOX

617431-412

617431-412

DUTY MASTER ALTERNATING CURRENT MOTORS

ENCLOSURE: TOTALLY ENCLOSED

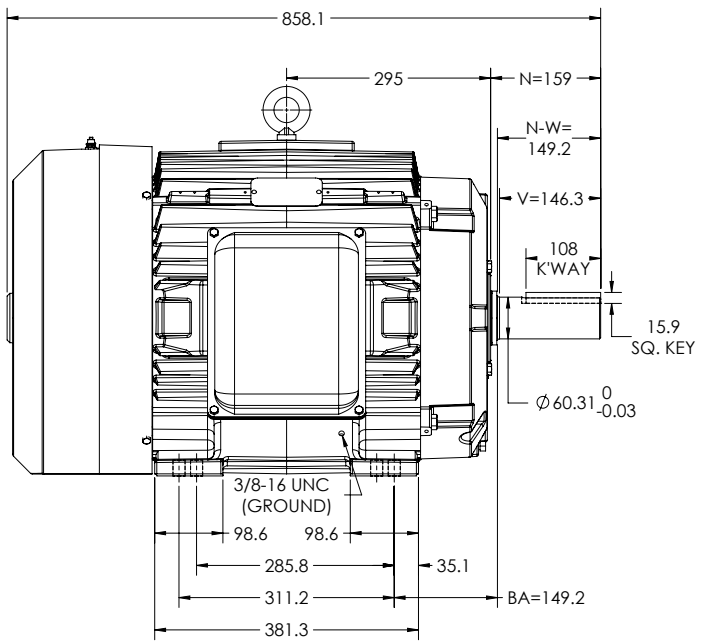
SQUIRREL-CAGE INDUCTION

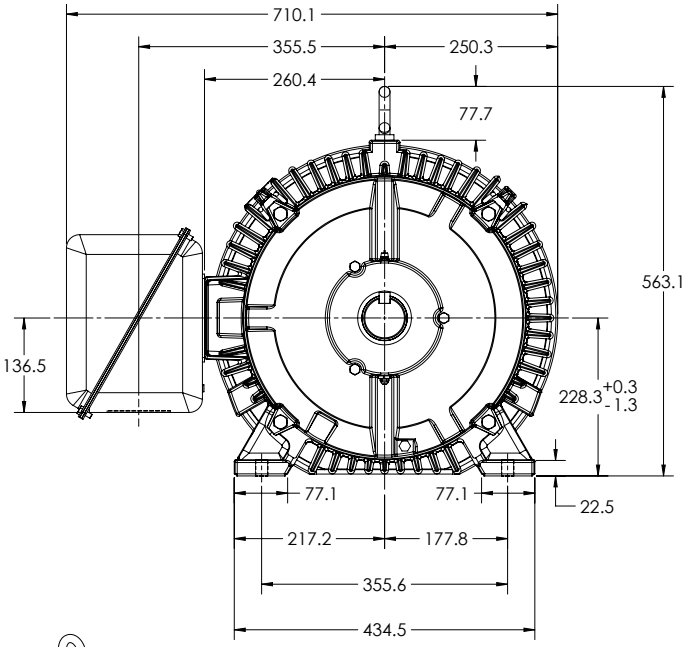
MOUNTING: FOOT, F-1 SIDE

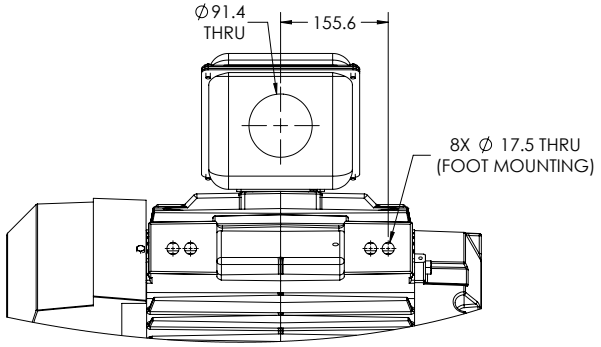
E365T/E364T FRAME MOUNTING

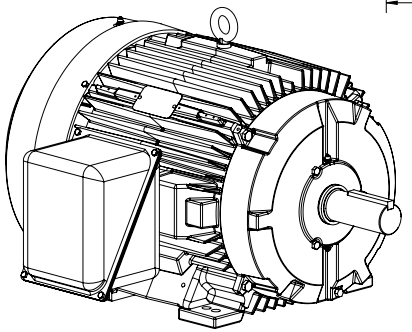
COOLING: FAN COOLED

STEEL CONDUIT BOX









DIMENSIONS ARE IN MILLIMETERS.
WEIGHT (KG) 362. MOTOR WEIGHT MAY VARY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 2 OF 2

617431-412

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .08 T.I.R.

REV. DESC: UPDATE DS QUALITY			
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MODEL NO. 617431-412			
BY: USJEDIL			C

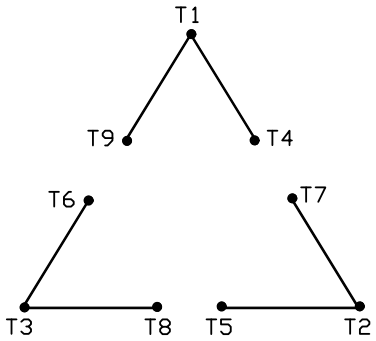
BALDOR

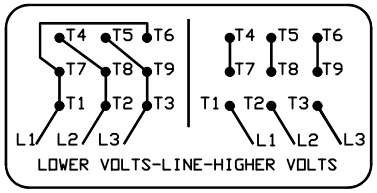
E365/364T TEFC FOOT F1/STEEL CONDUIT BOX

617431-412

416820-002

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





(N. P. 1575-B)

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: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002