

PRODUCT INFORMATION PACKET

Model No: 825432.00

Catalog No: 825432.00

Explosion Proof Motor, 350 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 447/449T Frame, EPFC



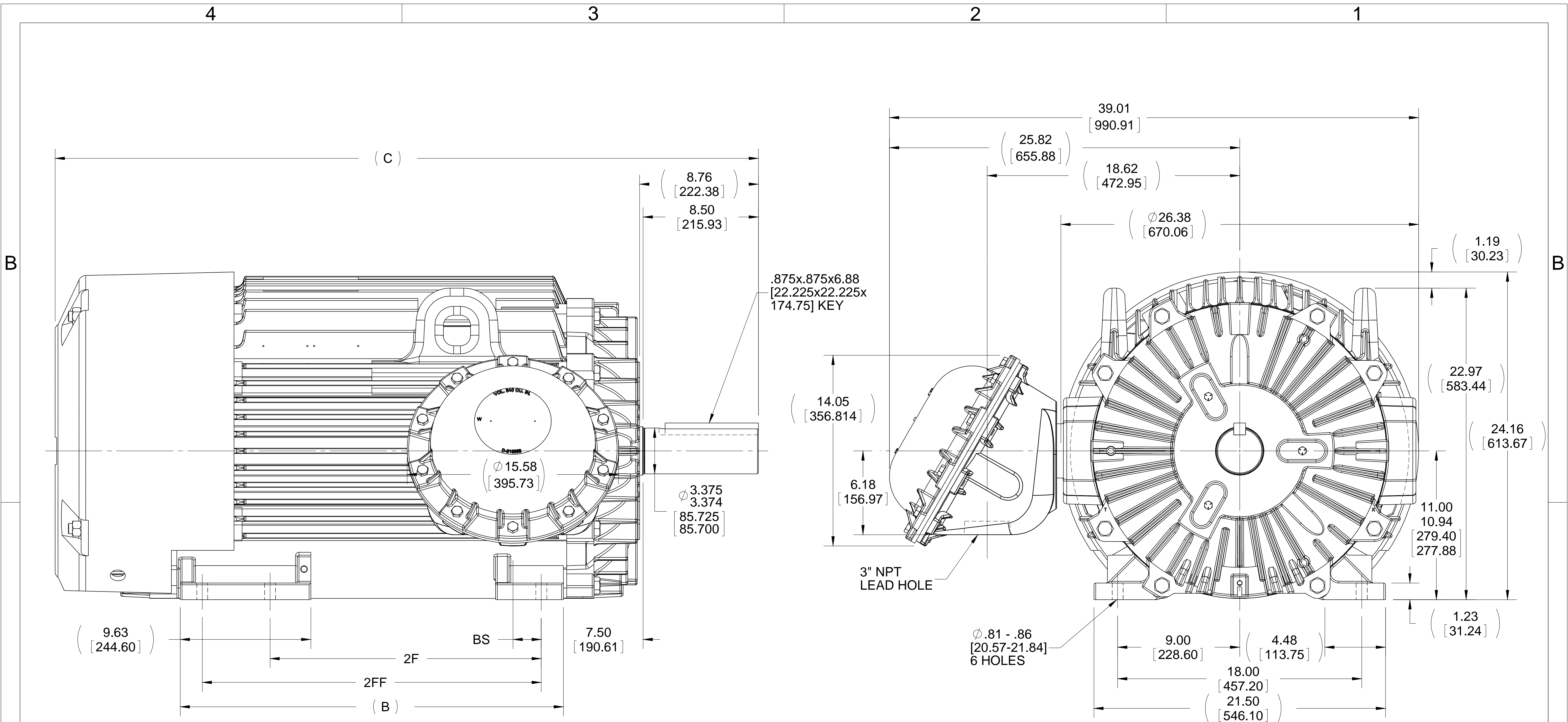
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Nameplate Specifications

Output HP	350 Hp	Output KW	260.0 kW
Frequency	60 Hz	Voltage	460 V
Current	395.0 A	Speed	1785 rpm
Service Factor	1	Phase	3
Efficiency	96.2 %	Power Factor	86.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	447/449T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	NU319	Opp Drive End Bearing Size	6318
UL	Listed	CSA	N
CE	N	IP Code	54
Hazardous Location	EXP PROOF CL I GR C&D CL II GR F&G T3B	Number of Speeds	1

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start & Wye Start Delta Run Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.0075 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Roller
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Overall Length	51.85 in
Frame Length	28.76 in	Shaft Diameter	3.375 in
Shaft Extension	8.5 in	Assembly/Box Mounting	F1 Only
Inverter Load	CONSTANT 2:1		
Connection Drawing	A-EE7300CB	Outline Drawing	B-SS515578-2875



NOTES:
 1. CONDUIT BOX CAN ONLY BE ROTATED CLOCKWISE UP TO 270° FROM ITS ORIGINAL POSITION.
 2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

DASH	FRAME	B	C	2F	2FF	BS
2875	447T	28.25 [717.55]	51.85 [1316.99]	20.00 [508.00]	-----	2.09 [53.09]
2875	449T	28.25 [717.55]	51.85 [1316.99]	-----	25.00 [635.00]	2.09 [53.09]

DRAWING REVISION C	REVISION BY AJW	DATE 03-31-2015
ECO ECO-0074730	APPROVED BY TDB	DATE 04-01-2015
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°
 CORNER FILLETS: R.02 [51]
 MACHINED SURFACES: 200 INCH/mm 5.1
 mm SHOWN IN [BRACKETS]

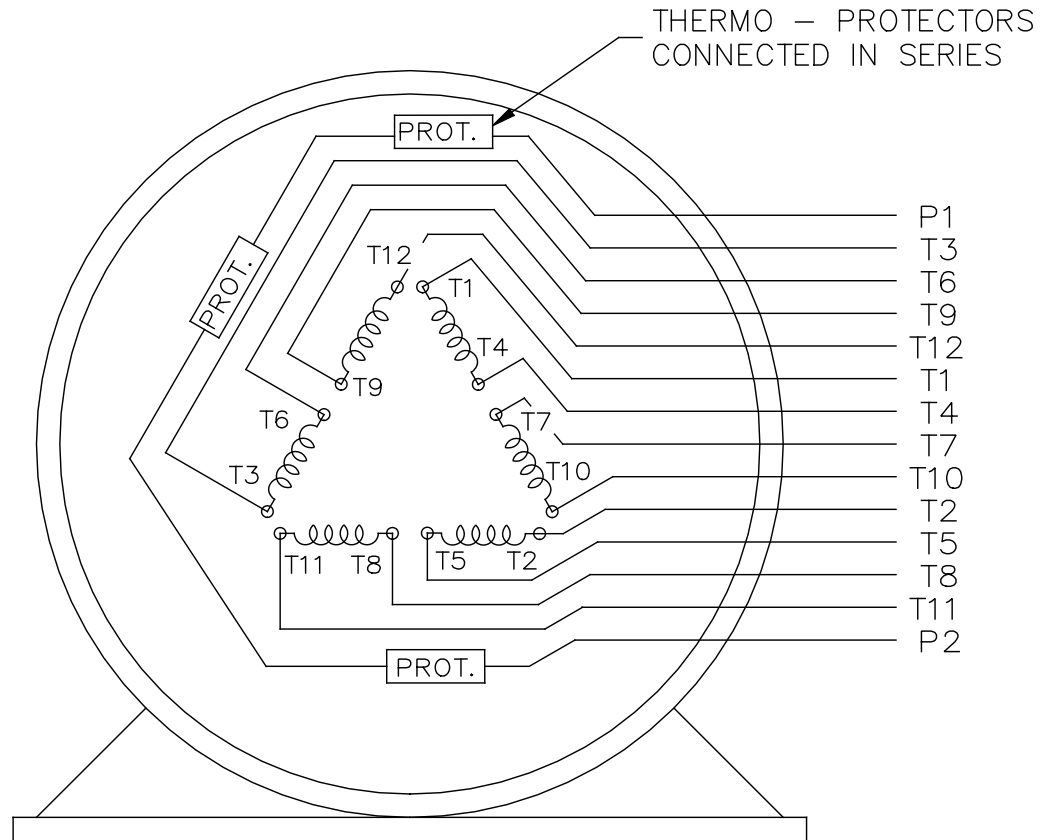
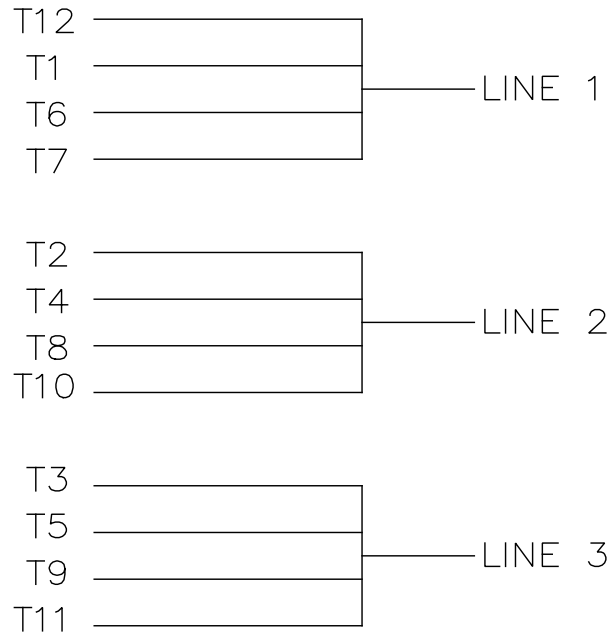
DRAWN BY SMC
DATE 04-15-1996
APPROVED BY JPN
DATE 04-19-1996
REFERENCE
THIRD ANGLE PROJECTION

REGAL™ Regal Beloit America, Inc.

DESCRIPTION
OUTLINE
447/449T FR. -EXP. PR. - STD.

MATERIAL PROCESS/FINISH

SIZE **B** DRAWING NUMBER **SS515578** SHEET 1 OF 1



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION	DRAWN KL 02-27-2003		
				DEC.	INCHES		CHK GFH 03-03-2003		
				.X	± -		APPD JES 03-03-2003		
				.XX	± -	TITLE CONNECTION DIAGRAM - EXTERNAL 12 LEAD SINGLE VOLTAGE	SCALE 1=1		
				.XXX	± -		REF		
A	CHANGED TO REGAL TITLEBLOCK ECO-0108299	WGJ 08-18-2016	EMH	.XXXX	± -	MAT'L.	FMF		
NO.	REVISION	BY & DATE	CHK	ANG	± -	FINISH	PREV		
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT						RFP	CAD FILE EE7300CB	SIZE A	DRAWING NO. EE7300CB
						DIST		PAGE OF	REV.



1051 CHEYENNE AVE.
GRAFTON, WI 53024
PH. 262-277-8810

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: A-EE7300CB
OUTLINE: B-SS515578-2875
WINDING: T4494123

CAT #: 825432.00

NONE 1

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
350	261	1800	1785	447/449T	TEFC	TFN	G	BC

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	460	395	PWS & YDRUN OR INV	CONT	F	1.15	40	3300

F.L. EFF	96.2	3/4 LD EFF	96.2	1/2 LD EFF	95.4	GTD EFF	ELECT. TYPE
F.L. PF	86.5	3/4 LD PF	84.0	1/2 LD PF	77.5	95.8	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
1,030 LB-FT	2,550	2,075 LB-FT 201%	2,400 LB-FT 233%	80

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
85 dBA	94 dBA		98.0 LB-FT²	2900 LB-FT²	25 SEC.	1	3100 LB.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	UM SEVERE	OF CL I GR C&D CL II GR	NO	NONE	WATTSAVER

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
ROLLER	BALL						
NU319	6318						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.007	0.005	0.066	0.1	2.311	0.080	NONE

* N O T E S *	INVERTER TORQUE: CONSTANT 2:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED					
	ENCODER: NONE NONE NONE					
	BRAKE: NONE NONE NONE					
	FT-LB: NA VOLTAGE: NONE					
	HZ: NONE PPR					

DATE:	8/29/2018	UL: NO LETTER - ALL BRANDS-UL LISTED DIV. 1 EXPLOSIONPROO
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Data Sheet

Date: 8/29/2018

825432.00



Data @ **460 V**

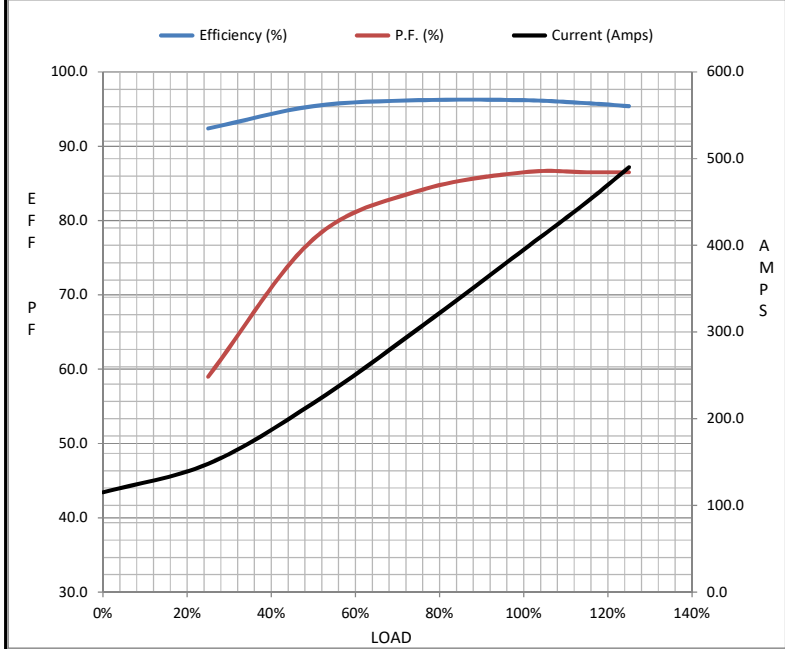
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	115	148	218	304	395	450	490	2,550
Torque (ft-lb)	0.00	256	512	770	1,030	1,185	1,290	2,075
RPM	1800	1796	1794	1790	1785	1,782	1780	0
Efficiency (%)		92.4	95.4	96.2	96.2	95.8	95.4	
P.F. (%)	5.5	59.0	77.5	84.0	86.5	86.5	86.5	31.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1725	1785	1800
Current (Amps)	2,550	2,250	1,350	395	115
Torque (ft-lb)	2,075	1,950	2,400	1,030	0.00

Information Block				
HP	350.0			
Sync. RPM	1800			
Frame	449			
Enclosure	TEFC			
Construction	TFN			
Voltage	460 V			
Frequency	60 Hz			
Design	A			
LR Code letter	G			
Service Factor	1.15			
Temp Rise @ FL	80 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	98.0 Lb-Ft ²			
Ref Wdg	T4494123 NONE			
Sound Pressure @ 1M	85 dBA			
VFD Rating	CONSTANT 2:1			
Outline Dwg	B-SS515578-2875			
Conn. Diag	A-EE7300CB			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.0070	0.0050	0.0660	0.1000	2.3110



Speed - Torque Curve

