

PRODUCT INFORMATION PACKET



Model No: FEH1028S

Catalog No: FEH1028S

Condenser Fan Motor, 1/4 HP, 1 Ph, 60 Hz, 460 V, 850 RPM, 1 Speed, 48 Frame, TEAO



Regal and Century are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2024 Regal Rexnord Corporation, All Rights Reserved. MC017097E





Nameplate Specifications

Phase	1	Output HP	1/4 Hp
Output KW	0.19 kW	Voltage	460 V
Speed	850 rpm	Service Factor	1
Frame	48Y	Enclosure	Totally Enclosed Air Over
Thermal Protection	Automatic	Ambient Temperature	60 °C
Frequency	60 Hz	Current	0.75 A
Duty	Air Over	Insulation Class	B
UL	Recognized	CSA	Y
CE	N	Number of Speeds	1

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	8	Rotation	Reversible
Mounting	Extended Studs	Motor Orientation	Any
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Double Flat
Overall Length	11.50 in	Frame Length	4.25 in
Shaft Diameter	0.500 in	Shaft Extension	6 in
Outline Drawing	FEH1028S-S01	Connection Drawing	614131-089

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:11/27/2024

GENERAL INFORMATION:

SHAFT RUNOUT: .001[.03] T.I.R. PER INCH LENGTH OF EXTENSION.

BEARINGS: BALL

MOUNTING POSITION: ALL ANGLE

ELECTRICAL DATA:

OVERLOAD PROTECTOR: AUTOMATIC RESET (T.I. 7AM 036)

LEADS: NO. 18 GA., .03[.8] THK., PVC 125°C INSUL.

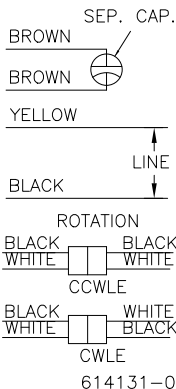
REVERSING LEADS: NO. 18 GA., .03[.8] THK., XLP 125°C INSUL.

GROUND LEAD: NO. 18 GA., .03[.8] THK., (GREEN) INSUL.

NAMEPLATE DATA:

EXTERNAL CONNECTION DIAGRAM

MODEL NO.: F48N40A01
CUST. P/N: FEH1028S
HP: 1/4
ROT.: REVERSIBLE
RPM: 850
TYPE: UF
FRAME: 48Y
VOLTS: 460
PH: 1
AMPS: 0.75
HZ: 60
INS.: B
AMB.: 60° C
DUTY: AIR OVER
CAP.: 5.0 MFD/370 V
ENCL: ENCLOSED
UL LOGO
CSA LOGO
THERMALLY PROTECTED



PERFORMANCE CURVE NO.	TORQUE @ 850 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT		CSA	
			FILE #	CCN #	FILE #	CLASS #
C31154	24.1 OZ. FT.	-----	E46412	PRGY2	LR43341	4211-01

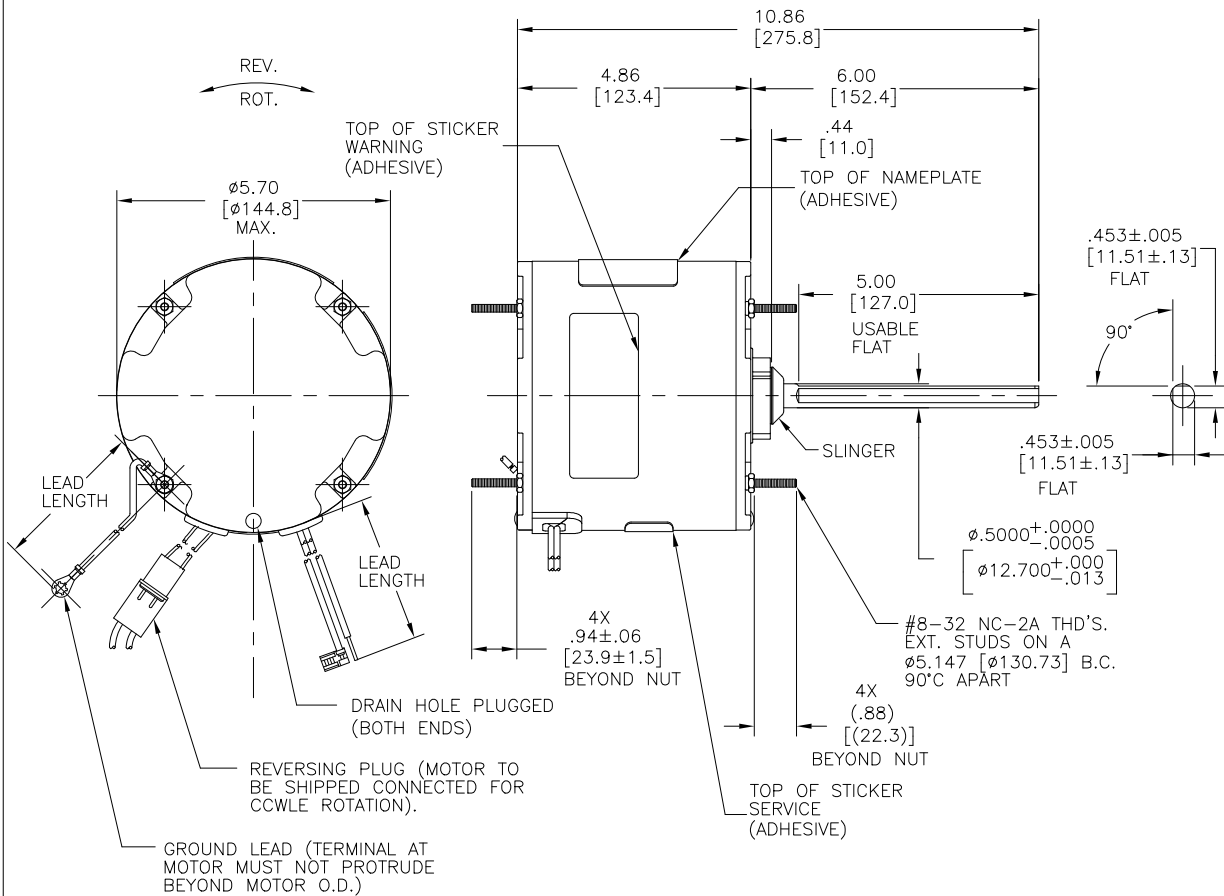
GEOMETRIC CHARACTERISTICS & SYMBOLS
□ FLATNESS
— STRAIGHTNESS
∠ ANGULARITY
⊥ PERPENDICULARITY (SQUARENESS)
// PARALLELISM
○ ROUNDNESS (CIRCULARITY)
⊙ CYLINDRICITY
○ PROFILE OF ANY SURFACE
○ PROFILE OF ANY LINE
○ RUNOUT
⊙ TRUE POSITION
⊙ CONCENTRICITY
= SYMMETRY

ASME Y14.5M 1994

REGAL-BELOIT CORPORATION (RBC) PROVIDES TECHNICAL ASSISTANCE TO OUR CUSTOMERS IN SEVERAL AREAS. SINCE RBC DOES NOT RECEIVE ALL DATA CONCERNING THE USE AND APPLICATION OF THE MOTOR, THE SUITABILITY OF THE MOTOR FOR THE APPLICATION MUST BE DETERMINED BY THE CUSTOMER.

DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

REV	ECO	REV BY	DATE	APPD	DATE
AA	ECR-0238477	SURYA	11/11/2024	KEP	11/11/2024



GREEN(GRD)	11.0/13.0 [279/330]	#10 EYELET
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG
BROWN	35.0/38.0 [889/965]	.25[6.4] FLAG
BROWN	35.0/38.0 [889/965]	.25[6.4] FLAG
YELLOW	35.0/38.0 [889/965]	.50[12.7] SKIN
BLACK	35.0/38.0 [889/965]	.50[12.7] SKIN
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

LEAD DATA

DR BY:	B.ZHAO	01-19-2012
APPD:	B.SHEN	01-19-2012
THIRD ANGLE PROJECTION	EDS DATE	11-11-2011
	FORMAT REV	G
CONFIDENTIAL: THIS DRAWING AND ITS INFORMATION ARE THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF REGAL-BELOIT CORPORATION AND ARE NOT TO BE DISCLOSED, DUPLICATED, DISTRIBUTED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF REGAL-BELOIT CORPORATION. -ALL RIGHTS RESERVED.		

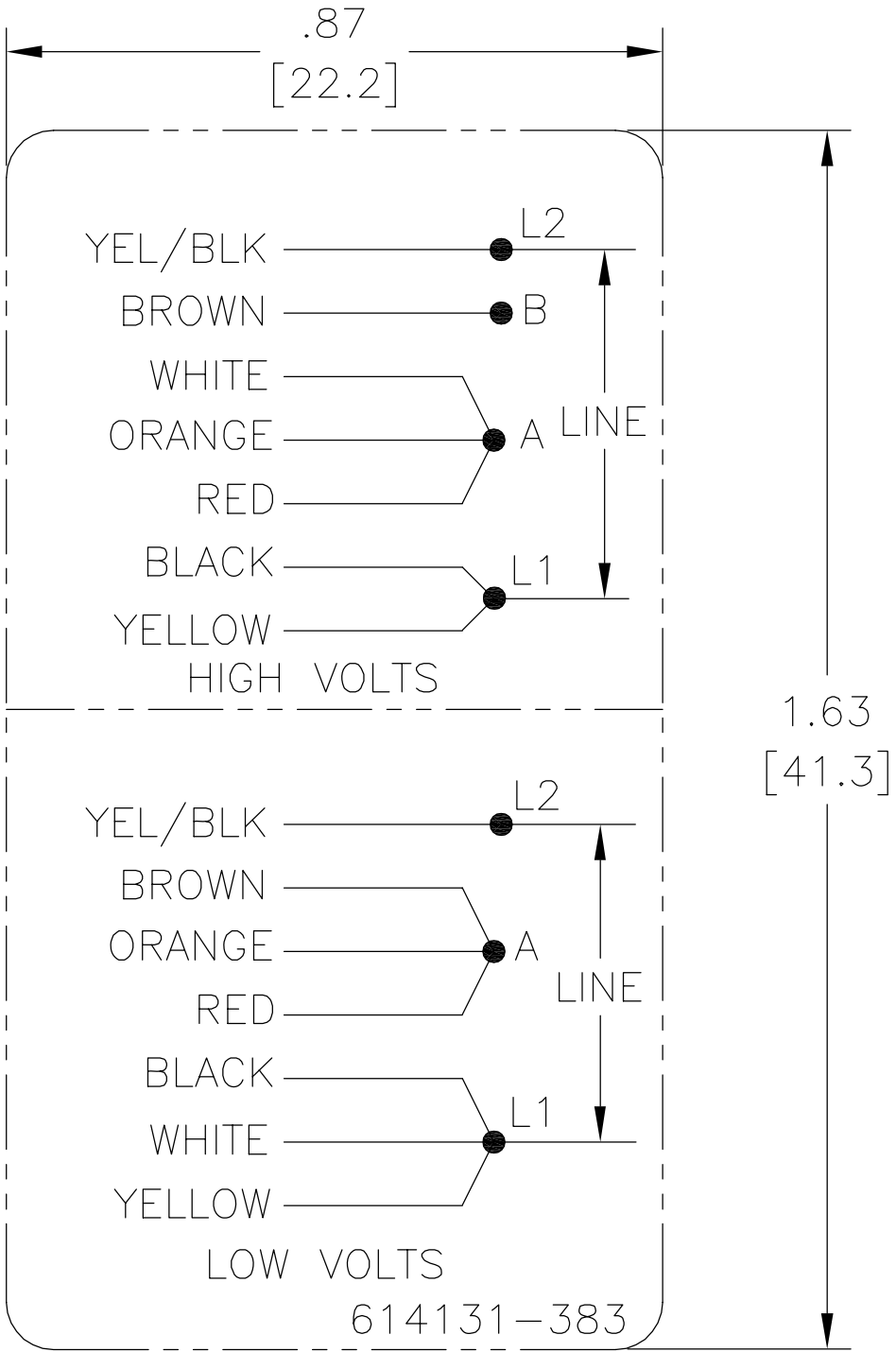
MAIN FRAME - OLE	ENCLOSED
END FRAME - OLE	ENCLOSED
MAIN FRAME - LE	ENCLOSED
END FRAME - LE	ENCLOSED

CUSTOMER	DISTRIBUTION SERVICES
----------	-----------------------



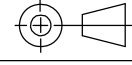
DESCRIPTION		MODEL-RFHP-48FR OUTLINE	
SIZE	C	DWG NO	FEH1028S
SCALE	NONE	SHEET	1

REV	ECO	REV BY	DATE	APPD	DATE
C	ECO-0022540	jrupert	09-21-2011	jrupert	09-21-2011

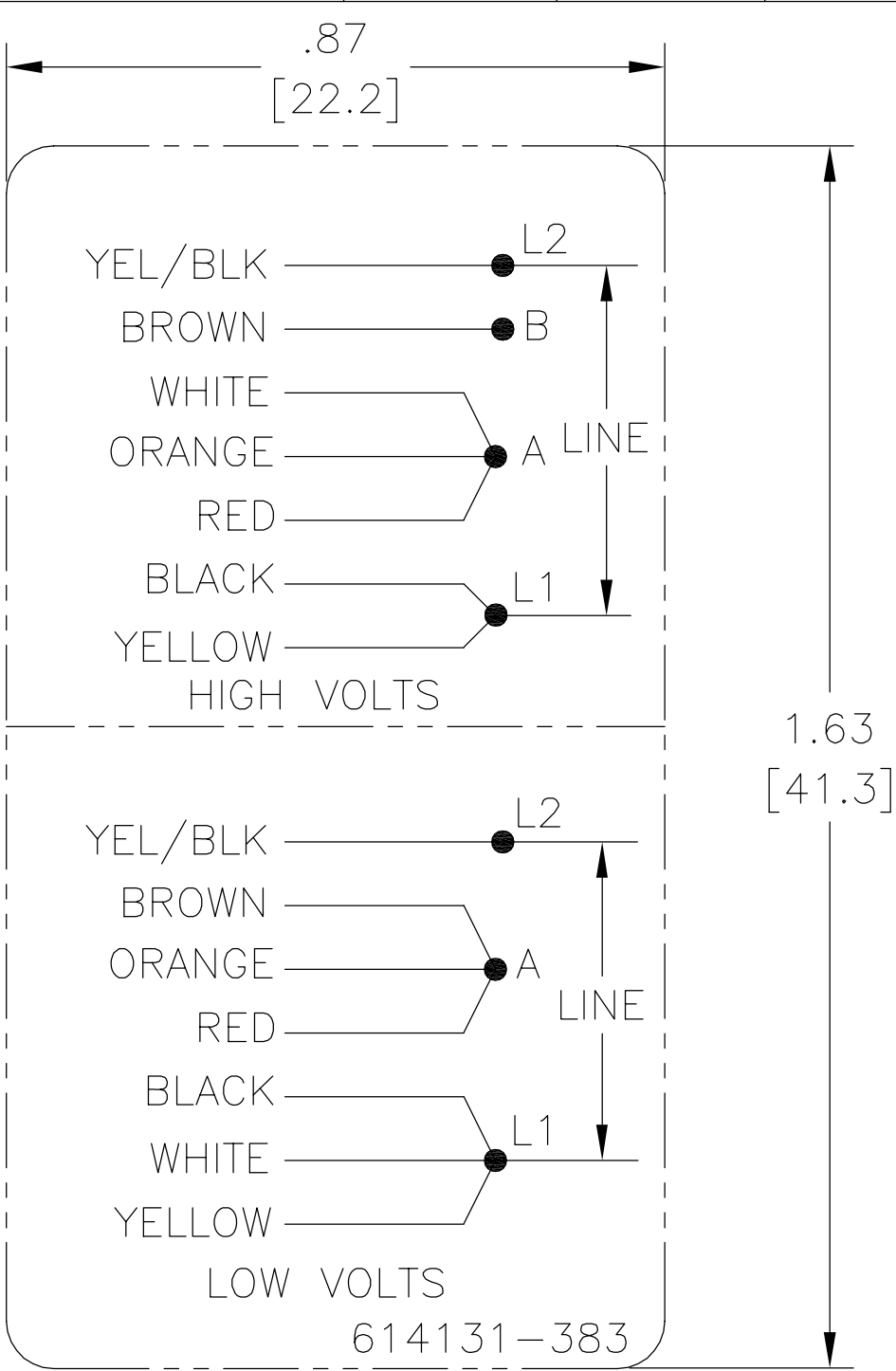


NOTES:

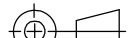
1. FOR USE WITH 614129 NAMEPLATE BLANK
2. — — — — — INDICATES DIMENSION LIMITS
3. DIE TO BE MADE FROM MASTER SUPPLIED BY A. O. SMITH CORPORATION
4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

GEOMETRIC CHARACTERISTICS & SYMBOLS ∇ FLATNESS — STRAIGHTNESS ∠ ANGULARITY ⊥ PERPENDICULARITY (SQUARENESS) // PARALLELISM ○ ROUNDNESS (CIRCULARITY) ⌀ CYLINDRICITY △ PROFILE OF ANY SURFACE ⌒ PROFILE OF ANY LINE ↑ RUNOUT ⊕ TRUE POSITION ◎ CONCENTRICITY = SYMMETRY	UNLESS OTHERWISE SPECIFIED DIM. TOLERANCES ARE AS FOLLOWS: INCH X XX XXX XXXX mm ±.1 ±.02 ±.005 ±.0005 mm ±0.5 ±0.13 ±0.013 ANG. ±.50 DEG REMOVE BURRS & BREAK SHARP EDGES: INCH .003—.015 mm 0.1—0.4 CORNER FILLETS TO: INCH .020 mm 0.5 MACHINE SURFACES: INCH 125 mm 3.2 METRIC DIMS. SHOWN IN [BRACKETS]	DR BY:	jrupert	09-21-2011	 ELECTRICAL PRODUCTS COMPANY innovation has a name. A DIVISION OF A. O. SMITH CORPORATION	
		APPD:	jrupert	09-21-2011		
		THIRD ANGLE PROJECTION 	EDS DATE 02-22-2008	DESCRIPTION CONN DIAGRAM NAMEPLATE		
			FORMAT REV F			
		CONFIDENTIAL: THIS DRAWING AND ITS INFORMATION ARE THE EXCLUSIVE AND CONFIDENTIAL PROPERTY OF A.O. SMITH CORP. AND ARE NOT TO BE DISCLOSED, DUPLICATED, DISTRIBUTED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF A.O. SMITH CORP. -ALL RIGHTS RESERVED. ASME Y14.5M 1994			SIZE A	DWG NO 614131-383
					SCALE NONE	SHEET 1

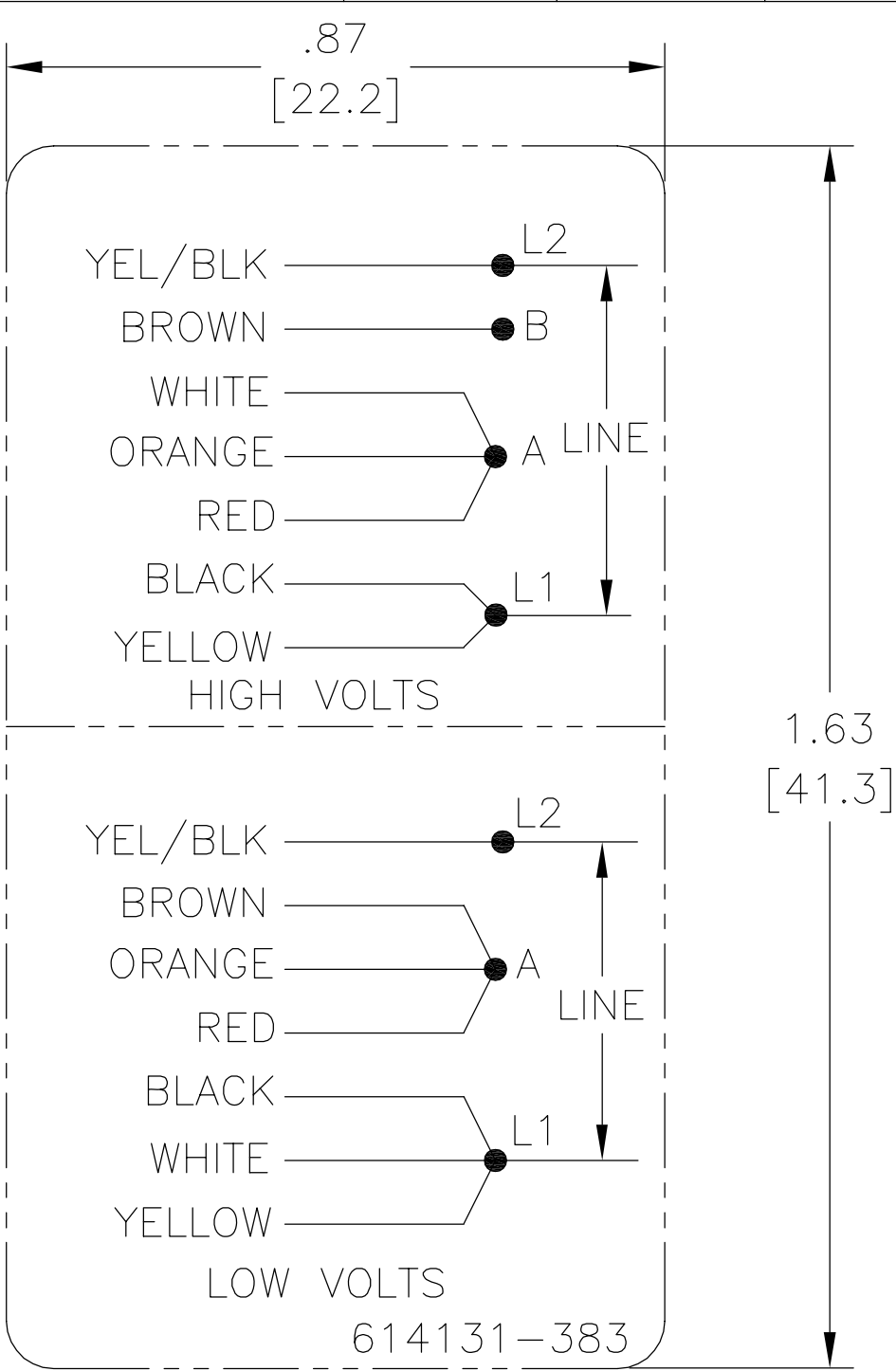
REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
C	ECO-0022540	jrupert	09-21-2011	jrupert	09-21-2011



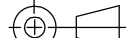
- NOTES:
1. FOR USE WITH 614129 NAMEPLATE BLANK
 2. — — — — — INDICATES DIMENSION LIMITS
 3. DIE TO BE MADE FROM MASTER SUPPLIED BY A. O. SMITH CORPORATION
 4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS ∇ PLANICIDAD — RECTITUD ∠ ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) ⌀ CILINDRICIDAD ⌒ PERFIL DE CUALQUIER SUPERFICIE ⌒ PERFIL DE CUALQUIER LINEA ↑ VARIACION ⊕ POSICION REAL ◎ CONCENTRICIDAD ≡ SIMETRIA	A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS. SON LAS SIGUIENTES: X XX XXX XXXX PULG ±.1 ±.02 ±.005 ±.0005 mm ±0.5 ±0.13 ±0.013 ANG. ±.50 GRADOS ELIMINAR REBABAS Y ORILLAS FILOSAS DEL BORDE. PULG .003-.015 mm 0.1-0.4 FILETEAR ESQUINA: PULG .020 mm 0.5 MAQUINAR SUPERFICIES PULG 125 mm 3.2 DIMS METRICAS MOSTRADAS [PARENTESIS]	DIBUJADO POR: jrupert	09-21-2011	ELECTRICAL PRODUCTS COMPANY Innovation has a name. A DIVISION OF A. O. SMITH CORPORATION		
		APROBADO POR: jrupert	09-21-2011			
		TERCER ANGULO DE PROYECCION		FECHA EDS: 02-22-2008 REV. FORMATO: F	DESCRIPCION: CONN DIAGRAM NAMEPLATE	
		CONFIDENCIAL: ESTE DIBUJO Y SU INFORMACION SON PROPIEDAD DE USO EXCLUSIVO Y CONFIDENCIAL DE A.O.SMITH CORP. Y NO DEBERAN SER REVELADOS, DUPLICADOS, DISTRIBUIDOS O USARSE DE OTRA MANERA SIN EL CONSENTIMIENTO ESCRITO DE A.O. SMITH CORP. -TODOS LOS DERECHOS RESERVADOS.ASME Y14.5M 1994			TAMAÑO: A	NUMERO DE DIBUJO: 614131-383
					ESCALA:NONE	

??	ECO	??	??	??	??
C	ECO-0022540	jrupert	09-21-2011	jrupert	09-21-2011



- NOTES:
1. FOR USE WITH 614129 NAMEPLATE BLANK
 2. — — — — — INDICATES DIMENSION LIMITS
 3. DIE TO BE MADE FROM MASTER SUPPLIED BY A. O. SMITH CORPORATION
 4. DIE MUST PRODUCE A LEGIBLE IMPRESSION.

????? □ ??? — ??? ∠ ??? ⊥ ??? // ??? ○ ??? ∠ ??? △ ??? ∩ ??? ↑ ??? ⊕ ??? ⊙ ??? ≡ ???	????? ?????? ?? X XX XXX XXXX ?? ±.1 ±.02 ±.005 ±.0005 ?? ±0.5 ±0.13 ±0.013 ?? ±50 ? ?????? ?? .003-.015 ?? 0.1-0.4 ?? ?? .020 ?? 0.5 ????? ?? 125 ?? 3.2 ?????? ??????[]	?: jrupert	09-21-2011	 ELECTRICAL PRODUCTS COMPANY Innovation has a name. A DIVISION OF A. O. SMITH CORPORATION	
		?: jrupert	09-21-2011		
		?????	 ??????? 02-22-2008 ?????? F	CONN DIAGRAM NAMEPLATE	
		?: ?????????????A.O.SMITH????? ??A.O.SMITH???????????????????? ??????—?????		?? A	?? 614131-383
		ASME Y14.5M 1994		?? NONE	?? 1