



B4MASK



TYPICAL APPLICATIONS Outdoor electrical equipments, pumps, high pressure cleaners

FUNCTIONS

- SPST
- DPST, illuminated or not
- DPCO

PROTECTION DEGREE IP 65

CYCLE No. 50.000

CUT OUT 30x22 mm

AMBIENT TEMPERATURE 120 °C

GWT 850 °C

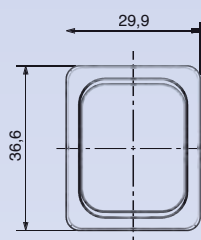
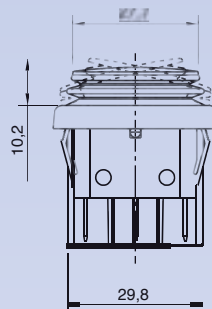
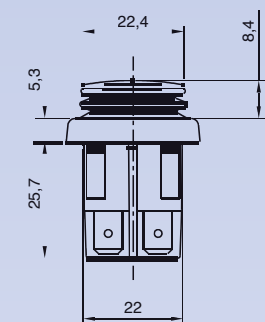
GWT NO FLAME (<2sec) 750 °C on demand

B 4 M A S K

?

DRAWING

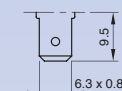
TERMINAL



→ Available in **Gloss** or **Mat**

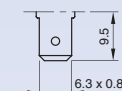
1 Gloss version

3 Mat version



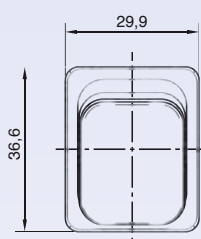
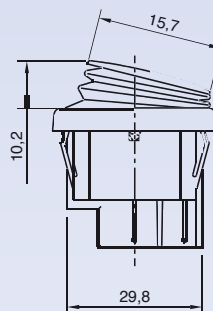
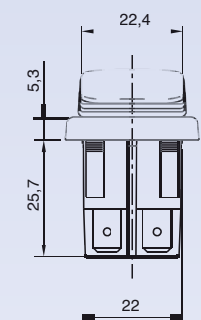
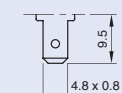
4 Gloss version

5 Mat version



L Gloss version

P Mat version



→ Available in **Gloss** or **Mat**

Everel Group S.p.A.

Via Cavour, 9
37067 Valeggio sul Mincio (VR) - Italy
Tel. +39 045 6313711
Fax +39 045 6313730
www.everel.eu
info@everel.eu

Capitale sociale Euro 15.359.290,00 i.v.
Codice Fiscale e numero di iscrizione al
Registro delle Imprese di Verona 00695230250
Partita IVA 03620830178
R.E.A. 325677

Everel

EC Declaration of Conformity

Issuer's name and address:

Everel Group S.p.A.
Via Cavour, 9
I – 37067 Valeggio sul Mincio (VR)

Product:

Switches

Type designation (brand: Molveno, AC):

Series A1-A2-A4, A8, B1, B4, B2, B10, B4/B4MASK, B4D, CA-CO-CN-CP, CB, CK, DC, DS, DY, DK, DQ, FLZ17, GP, GSS, LF2-LF3-LF4-FLZ, GP, LF2-LF3-LF4-FLZ, P1, P2-P3-P4-P5, PZ, QFIT-UP-LITE, R1-R5, R2, RFIT/RMASK, SCA (0584-0585), SCM7, SCS1,2,3,4, SK2, SK9, SP60, SP63, SPM, TECNO, TOUCH.

Type designation (brand: Signal Lux):

Series 81-8A, 82, 83, A3, A4, C2, D1, L1, L4, L5, LR, V8, ZP.

Type designation (brand: Dreefs):

Series CF, CH, DX, E, HE, HF, HT, 1DP, 1-DPS, Wi39, WiXV.

Type designation (brand: Everel):

Series MSA, MSS

The designated product complies with the following standards:

DIN EN 61058-1:2008-09; EN61058-1:2002+A2:2008

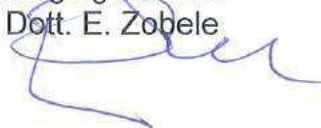
And they therefore meets the essential requirements of European Directive:

2006/95/EC

"Council Directive on the harmonization of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits".

Valeggio s/M, 03/02/2014

Managing Director
Dott. E. Zobelev



PID:

02227000

CID:

C.1993.5189

Certificato di approvazione

Approval certificate

**IMQ, ente di certificazione accreditato,
autorizza la ditta**

IMQ, accredited certification body, grants to

**EVEREL GROUP SPA
VIA CAVOUR 9
37067 VALEGGIO SUL MINCIO VR**

all'uso del marchio

the licence to use the mark

ENEC 03,IMQ



Il presente certificato è stato rilasciato sotto la presunzione e subordinatamente al fatto che il concessionario detenga tutti i necessari diritti legali relativi ai prodotti presentati per le prove e la certificazione, descritti nell'Allegato al presente certificato; inoltre, esso è soggetto alle condizioni previste nel "Regolamento IMQ - Certificazione prodotto".

per i seguenti prodotti

for the following products

**Interruttori per apparecchi
(Serie B4)**

*Switches for appliances
(Series B4)*

This certificate has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the products presented for testing and certification, and listed in the annex to this certificate; moreover, it is subjected to the conditions foreseen by "IMQ Rules - Product Certification".

Emesso il / Issued on:

1994-05-20

Data di aggiornamento / Updated on

2010-12-15

Sostituisce / Replaces

2007-10-09

A large, stylized handwritten signature in black ink, reading 'Augusto Cicchi'. Below the signature, the text 'IMQ S.p.A.' is printed in a bold, sans-serif font.

Allegato - Certificato di approvazione
Annex - Approval certificate

Emesso il / Issued on 1994-05-20
Data di aggiornamento / Updated on 2010-12-15
Sostituisce / Replaces 2007-10-09

Prodotto | Product

Interruttori per apparecchi Switches for appliances

Concessionario | Licence Holder

EVEREL GROUP SPA
VIA CAVOUR 9
37067 VALEGGIO SUL MINCIO VR

Marchio | Mark



ENEC
03, IMQ

Costruito a | Manufactured at

95002195 C02612126

37067 VALEGGIO SUL MINCIO

VR Italy

Copia del presente certificato deve essere conservata presso i luoghi di produzione sopra elencati.

Copy of this certificate must be available at the manufacturing places listed above

Norme

EN 61058-1:2002 + A2:2008
Prodotti conformi ai requisiti essenziali della Direttiva B.T. 2006/95/CE

Standards

EN 61058-1:2002 + A2:2008
Products meeting the essential requirements of L.V.D. 2006/95/EC

Rapporti | Test Reports

02AK00366

Caratteristiche tecniche | Technical characteristics

Serie / Series	B4
Apertura contatti / Contact opening	completa / full disconnection
Metodo di comando / Actuating method	a bilanciere / rocker
Temperatura ambiente / Ambient temperature (T)	T120/55 °C
Grado di protezione / Degree of protection (IP)	IP40
Classe di isolamento / Degree of protection (class)	II
Grado di inquinamento / Pollution situation	3
Livello della prova del filo incandescente / Level of glow wire test	livello 3 / level 3
Indice di tracking / Tracking Index (PTI)	PTI400
Tensione nominale di tenuta ad impulso / Rated impulse withstand voltage	2,5kV
Classificazione del riferimento di tipo / Switch with marking (C.T./U.T.)	C.T.

Articoli (con dettagli) | Articles (with details)

DAT94001468.1

Marca / Trade mark	AC
Riferimento di tipo / Type reference	B4
Articolo riferimento a catalogo / Article catalogue reference	B4.X.XX.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX
Corrente nominale / Rated current	4(1) A
Tensione nominale / Rated voltage	250 V
Numero di cicli di manovra / Operating cycles	1E4
Schema / Pattern number	1, 2, 4, 4MC, 4/2, 4/2MC, 6, 6/2
Tipo di carico / Type of load	carico resistivo-induttivo / resistive-motor load

Codice / Code **1.2, 1.3, 2.3, 2.5, 3.3, 3.5**

DAT94001468.2

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **16(6) A**
Tensione nominale / Rated voltage **250 V**
Numero di cicli di manovra / Operating cycles **1E4**
Schema / Pattern number **1, 1NO, 2, 2NO, 4, 4/2, 6, 6MC, 6/2, 6/2MC**
Tipo di carico / Type of load **carico resistivo-induttivo / resistive-motor load**
Codice / Code **1.2, 1.3, 2.3, 2.5, 3.3, 3.5**

DAT94001468.3

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **16(8) A**
Tensione nominale / Rated voltage **250 V**
Numero di cicli di manovra / Operating cycles **1E4**
Schema / Pattern number **1, 2**
Tipo di carico / Type of load **carico resistivo-induttivo / resistive-motor load**
Codice / Code **1.2, 1.3**

DAT94001468.4

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **2(0,5) A**
Tensione nominale / Rated voltage **250 V**
Numero di cicli di manovra / Operating cycles **5E4**
Schema / Pattern number **1, 2, 4, 4MC, 4/2, 4/2MC, 6, 6/2**
Tipo di carico / Type of load **carico resistivo-induttivo / resistive-motor load**
Codice / Code **1.2, 1.3, 2.3, 2.5, 3.3, 3.5**

DAT94001468.5

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **10(4) A**
Tensione nominale / Rated voltage **250 V**
Numero di cicli di manovra / Operating cycles **5E4**
Schema / Pattern number **1, 1NO, 2, 2NO, 4, 4/2, 6, 6MC, 6/2, 6/2MC**
Tipo di carico / Type of load **carico resistivo-induttivo / resistive-motor load**
Codice / Code **1.2, 1.3, 2.3, 2.5, 3.3, 3.5**

DAT94001468.6

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **10(6) A**
Tensione nominale / Rated voltage **250 V**
Numero di cicli di manovra / Operating cycles **5E4**
Schema / Pattern number **1, 2**
Tipo di carico / Type of load **carico resistivo-induttivo / resistive-motor load**
Codice / Code **1.2, 1.3**

DAT94001468.7

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **12(10) A**
Tensione nominale / Rated voltage **250 V**
Numero di cicli di manovra / Operating cycles **5E4**

Schema / Pattern number **1, 2NO, 2**
Tipo di carico / Type of load **carico resistivo-induttivo / resistive-motor load**
Codice / Code **1.2, 1.3**

AR.D002X3

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **14(14) A**
Tensione nominale / Rated voltage **250 V**
Numero di cicli di manovra / Operating cycles **5E4**
Schema / Pattern number **2**
Tipo di carico / Type of load **carico resistivo-induttivo / resistive-motor load**
Codice / Code **1.3**

AR.E00CB6

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **20(10) A**
Tensione nominale / Rated voltage **250 V**
Numero di cicli di manovra / Operating cycles **1E4**
Schema / Pattern number **2**
Tipo di carico / Type of load **carico resistivo-induttivo / resistive-motor load**
Codice / Code **1.3**

AR.E00CB7

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **16 A**
Tensione nominale / Rated voltage **250 V**
Numero di cicli di manovra / Operating cycles **1E4**
Schema / Pattern number **4, 4/2MC**
Tipo di carico / Type of load **carico resistivo / resistive load**
Codice / Code **3.3, 3.5**

AR.E00CB9

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **10 A**
Tensione nominale / Rated voltage **250 V**
Numero di cicli di manovra / Operating cycles **5E4**
Schema / Pattern number **4, 4/2MC**
Tipo di carico / Type of load **carico resistivo / resistive load**
Codice / Code **3.3, 3.5**

AR.E00CBA

Marca / Trade mark **AC**
Riferimento di tipo / Type reference **B4**
Articolo riferimento a catalogo / Article catalogue reference **B4.X.XX.X.X.X.X.X.XXX / B4 MASK.X.XX.X.X.X.X.XXX**
Corrente nominale / Rated current **10 A**
Tensione nominale / Rated voltage **400 V**
Numero di cicli di manovra / Operating cycles **1E4**
Schema / Pattern number **2, 4/2, 6/2**
Tipo di carico / Type of load **carico resistivo / resistive load**
Codice / Code **1.3, 2.5, 3.5**

Ulteriori informazioni | Additional Information

Descrizione della Serie B4 (numerazione a blocchi) - DIGIT :
I-II Serie; III dimensioni corpo e terminali; MF=morsetti faston, MS=morsetti a saldare, MV=morsetti a vite; IV-
V schema e portata; VI colore corpo; VII colore tasto; VIII colore simboli; IX simbologia; X colore indicatore
(led); XI-XII-XIII varianti.

Descrizione della Serie B4 versione B4 MASK (numerazione a blocchi) - DIGIT :

I-II-III-IV-V-VI Serie; VII dimensioni corpo e terminali: MF=morsetti faston, MS=morsetti a saldare, MV=morsetti a vite; VIII-IX schema e portata; X colore corpo; XI colore tasto; XII colore simboli; XIII simbologia; XIV colore indicatore (led); XV-XVI-XVII varianti.

Gli interruttori serie B4 MASK quando sono montati su un apparecchio hanno un grado di protezione contro l'ingresso dannoso di polvere ed acqua IP65.

Valori aggiuntivi per interruttori a una posizione di riposo portata 16(6)A/10(4)A 5E4:0,6VA-220V 1E5 cicli per accenditori.

Terminali a spina lamellare 6,3x0,8mm - 4,8x0,8mm; Terminali a saldare e a vite.

Prove supplementari richieste dal costruttore per gli interruttori con riferimento "W" (inserito a catalogo come ultimo digit) secondo la norma EN 60335-1:2003, paragrafo 30.2.3 "Resistenza al calore ed al fuoco".

Description of the Series B4 (blocks numeration) - DIGIT:

I-II Series; III dimension body and terminals: MF=tab terminals, MS=solder terminals, MV=screw terminals; IV-V pattern number and ratings; VI body colours; VII actuating member colours; VIII symbol colours; IX symbology; X signal lamp colours (led); XI-XII-XIII variants.

Description of the Series B4 version B4 MASK (blocks numeration) - DIGIT:

I-II-III-IV-V-VI Series; VII dimension body and terminals: MF=tab terminals, MS=solder terminals, MV=screw terminals; VIII-IX pattern number and ratings; X body colours; XI actuating member colours; XII symbol colours; XIII symbology; XIV signal lamp colours (led); XV-XVI-XVII variants.

The switches series B4 MASK when are mounting on the appliances have a protection against harmful ingress of dust and water IP65.

Additional values for push-button rating 16(6)A/10(4)A 5E4:0,6VA-220V 1E5 cycles for ignitors.

Tab terminals 6,3x0,8mm - 4,8x0,8mm; Solder terminals and screw terminals.

Supplementary test requested by the manufacturer for the switches with reference "W" (inserted to the catalogue as last digit) according to the standard EN 60335-1:2003, sub-clause 30.2.3 "Resistance to heat and fire".

Diritti di concessione | Annual Fees

DAT94001468 BTK.022200.DD23

Diritti modelli ENEC - 0222 - Interruttori per apparecchi utilizzatori | ENEC models - 0222 - Switches for appliances

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IMQ S.p.A.

Certification Record

CUSTOMER	CLASS	FILE
Everel Group S.p.A 9 Via Cavour, Valeggio Sul Mincio Verona 37067 Italy	6241-10 SWITCHES-Snap - Special Use	042742_0_000
Refer to Class Description for program details		

TO THE REQUIREMENTS OF C22.2 NO. 55-M1986, ECN NO. 526:

- Series SCME3 and SCME3S, illuminated, 13A, 125V ac or 250V ac; Series SCM11, non-illuminated, Types 81...F, spst or spdt, 15A, 125V ac, momentary type spst 15A 125V ac; Series SPL60, SPL61, SPL62, SPL63, illuminated or non-illuminated, 16A, 125 or 250V ac, 1/2 hp, 250V ac, 1/4 hp, 125V ac; Series E2, E4, non-illuminated, 16A, 125/250V ac, 3/4 hp, 250V ac, 1/3 hp, 125V ac. Series E3, illuminated or non-illuminated, 13A, 125/250V ac. Series A1, A2, A4 illuminated or non-illuminated, 10A, 125V ac and/or 250V ac, 1/3 hp, 125V ac and/or 1/2 hp, 250V ac for momentary types 6A, 125V ac, and/or 250V ac, 1/10 hp, 125V ac and/or 1/6 hp, 250V ac; Types A1..B, A2..B and A4..B, 10A/250V ac, 15A 125V ac, 1/3 hp 125V ac, 1/2 hp 250V ac and for three-position types 6A 125/250V ac, 1/8 hp 125V ac, 1/6 hp 250V ac; Types A1..7, A2..7, A4..7, momentary types 10A 125V ac and/or 250V ac, 1/6 hp, 250V ac, 1/10 hp, 125V ac; Series A8, illuminated or non-illuminated dpst 10A 125/250V ac; Series B1, B1-0, B2 and B4 illuminated or non-illuminated, and B4 Mask 20A, 125V ac, 16A, 250V ac, 1/3 hp, 125V ac, 3/4 hp, 250V ac or 10A 125 and/or 250V ac, 1/2 hp 250V ac, 1/3 hp 125V ac or 10A 125 and/or 250V ac or 20A 125V ac, 16A 250V ac, 1/3 hp 125V ac, 3/4 hp 250V ac.
- Pilot lights Series SPL60, SPL61, SPL62, SPL63, A5, A6 and A7, B5, B6 and B7, 100-130V ac, 200-250V ac.
- Series SCR64..6, rotary type, 10A, 125/250V ac, 1/4 hp, 125V ac, 1/2 hp, 250V ac.
- Series SCA58, non-illuminated, NO momentary types, Types 58...2, 2A, 125/250V ac; 58...6, 6A, 125/250V ac, 1/6 hp, 250V ac, 1/8 hp 125V ac.
- Series SPM, non-illuminated, 20A 125V ac, 16A 250V ac, 1/3 hp 125V ac, 3/4 hp 250V ac.
- Series F1, rocker type, three position, 13A, 125/250V ac.
- Series 7404 models 7564.2 and 7574.2; 5/10A; 125/250V ac.
- Special use rocker switches, Series D (with suffixes), rated 8A, 250V ac; 16A, 125V ac.
- Special use switches, Series R (with suffixes), rated 10A, 125V ac.
- Special use switches, Series 94..., illuminated or non-illuminated, inclusive momentary types, rated 16A, 4A FLA 250V ac for normal version and 1A, 0.2A FLA 250V ac for low level version

Notes:

- The series designation may be completed with code letters and/or numbers indicating type of operator, illumination voltage, rating, contact arrangement, type of terminals and mechanical details.
- Certified for use in equipment where the acceptability of the combination is to be determined by CSA International.
- The series designation F1 may be completed with code letters and/or numbers indicating type of terminals, contact arrangement, type of engravings, and body colours.

/tjb

DESCRIPTION

PRODUCT COVERED:

CNR, USR - Special-Use Switches, Component. Cat. Nos. B1, B2, B4, B4MASK, B4D, B10, B19, B40 with suffixes.

Cat. No.	Electrical Rating	Temp. (°C)	POL/THR	PP	ENDUR	SPCOA
Series B1, f/b terminal code f/b switch function code f/b Rating Code 4, B, C, D or E w/wo suffixes	(See Rating Code below)	105	1/1, 2	-	6K	2,3,10
*						
Series B2, f/b terminal code f/b switch function code f/b Rating Code B, C, D or E w/wo suffixes	(See Rating Code below)	105	1,2/1,2	PP	6K	2,3,10
*						
Series B4, f/b terminal code f/b switch function code f/b Rating Code 4, B, C, D, E, N, R or S w/wo suffixes	(See Rating Code below)	105	1,2/1,2	PP	6K	2,3,10, 11
*						
Series B10, f/b terminal code f/b function code, f/b Rating Code C or E w/wo suffixes	(See Rating Code below)	105	1,2/1,2	PP	6K	3
Series B10, f/b terminal code f/b function code, f/b Rating Code C or E w/wo suffixes f/b W as last one character	(See Rating Code below)	65	1,2/1,2	PP	6K	3
Series B19, f/b terminal code f/b function code, f/b Rating Code C or E w/wo suffixes	(See Rating Code below)	105	1,2/1,2	PP	6K	3

Series B40, f/b terminal (See Rating 105 1,2/1,2 PP 6K 3
code f/b function code, f/b Code below)
Rating Code C or E w/wo
suffixes.

Series B4MASK, f/b terminal (See Rating 105 1,2/1,2 PP 6K 3, 9,
code f/b function code, f/b Code below) 10,**11**
Rating Code C, E, N, R **or S**
w/wo suffixes

*

Series B4D, f/b terminal (See Rating 105 1,2/1,2 PP 6K 3, 9,
code f/b function code, f/b Code below) 10,**11**
Rating Code C, E, N, R **or S**
w/wo suffixes

*

Rating Code

Electrical Rating

4	16 A 125, 10A 250 V ac; 1/3 hp, 125 V ac; 1/2 hp, 250 V ac
B	10 A, 125/250 V ac
C, E, R	20 A, 125 V ac; 16 A, 250 V ac; 1/3 hp, 125 V ac; 3/4 hp, 250 V ac;
	3/4 hp, 125 V ac, (see SPCOA page 2).
D	20 A, 125 V ac; 1/3 hp, 125 V ac
N	20 A, 125 V ac; 16 A, 250 V ac; 3/4 hp, 250 V ac;
	3/4 hp, 125 V ac, (see SPCOA page 2).
S	25 A, 125 V ac; 16 A, 250 V ac 3/4 hp, 125 V ac, 250 V ac (see SPCOA 11 , page 2A).

Nonmenclature Breakdown

$\frac{B}{Z}$	$\frac{1}{Y}$	$\frac{B}{X}$	$\frac{C}{W}$	$\frac{4}{V}$	$\frac{W}{U}$
---------------	---------------	---------------	---------------	---------------	---------------

Z - B Series

Y - Model Identification - 1, 2, 4, 10, 19, 40

X - Terminal Type - See Ills.

W - Switch Function - See Ills.

V - Rating Code - 4, B, C, D, E, N, R or S

U - Optional digit **(available for B10 models only)** - nomenclature of models
B10 rated 65°C ends with code W

EXPLANATION OF ABBREVIATION:

f/b - followed by

w/wo - with or without

Res. - Resistive load. 98-100 percent power factor

POL/THR - No. of Poles/No. of Throws. "M" stands for Multi-Pole or Multi-Throw, e.g. 2/M indicates 2 Pole, Multi-Throw

PP - "PP" stands for Per Pole. PP in this column indicates that each pole is capable of switching the rated current.

ENDUR - Number of Endurance Test cycles of operation

SPCOA - Special Conditions of Acceptability; the applicable special COAs are indicated in this column in number form. The corresponding COAa are given in the following pages.