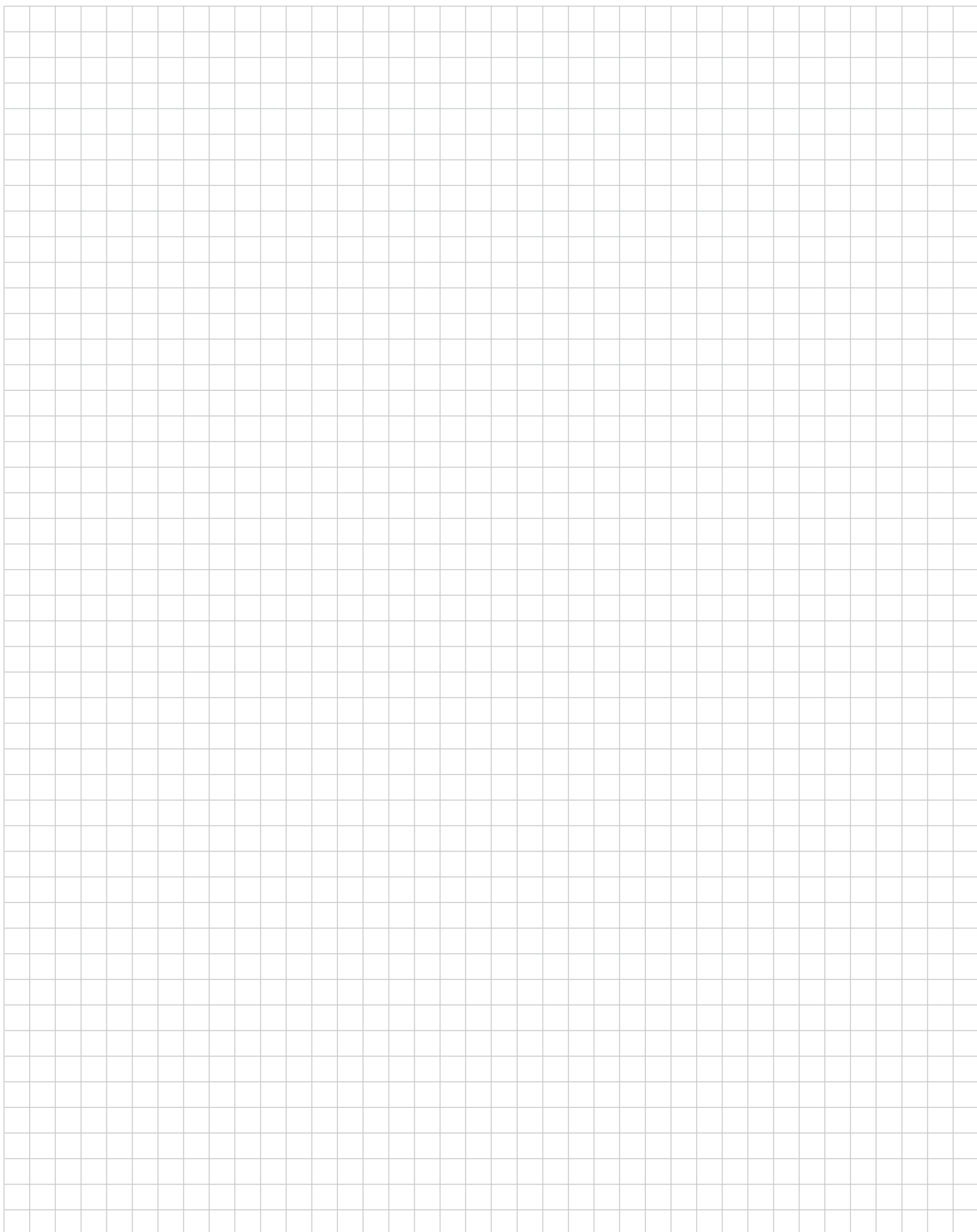
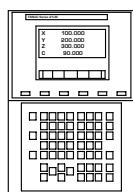


# 5 - Moduli e sistemi di cablaggio per CN

## 5 - Modules and systems for C.N.C.

CN FANUC C.N.C. FANUC	5/1
CN OSAI C.N.C. OSAI	5/20
CN NUM C.N.C. NUM	5/30
CN SELCA C.N.C. SELCA	5/40
CN HEIDENHAIN C.N.C. HEIDENHAIN	5/51
CN ECS C.N.C. ECS	5/61
CN SIEMENS 840Di - 802Di PP72/48 C.N.C. SIEMENS 840Di - 802Di PP72/48	5/90
Dati tecnici Specifications	5/101





FANUC Series 15i/150i  
 FANUC Series 16i/160i/160is  
 FANUC Series 18i/180i/180is  
 FANUC Series 21i/210i/210is  
 FANUC Series 20i



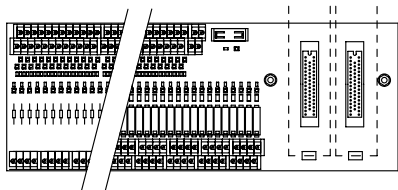
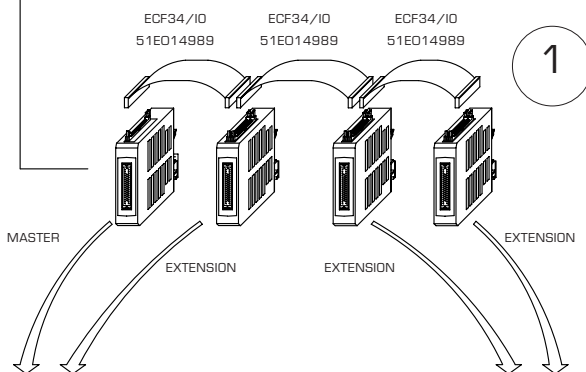
FANUC Power Mate i  
 MODEL D/H

MASTER (I/O : 24/16)  
 MASTER (I/O : 24/16 with MPG)

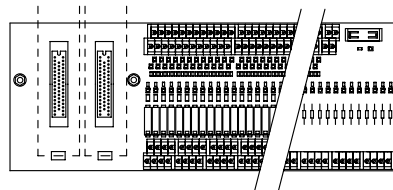
S.N. FANUC A03B-0815-0001  
 S.N. FANUC A03B-0815-0002

EXTENSION (I/O : 24/16)  
 EXTENSION (O : 16 - 2A)

S.N. FANUC A03B-0815-0003  
 S.N. FANUC A03B-0815-0004

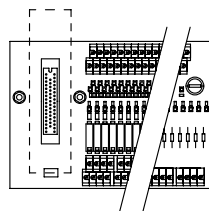
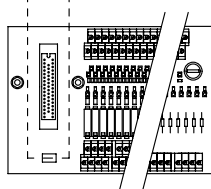


48 INGRESSI / 32 USCITE - MASTER  
 48 INPUT / 32 OUTPUT - MASTER  
 EMFAI48I32OV/M - 51E015118 PAG. 6  
 48 INGRESSI / 32 USCITE RELE' - MASTER  
 48 INPUT / 32 OUTPUT RELAYS - MASTER  
 EMFAI48I32ORZ/M - 51E015128 PAG. 6



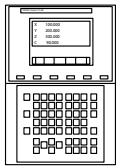
48 INGRESSI / 32 USCITE - ESPANSIONE  
 48 INPUT / 32 OUTPUT - EXTENSION  
 EMFAI48I32OV/E - 51E015119 PAG. 6  
 48 INGRESSI / 32 USCITE RELE' - ESPANSIONE  
 48 INPUT / 32 OUTPUT RELAYS - EXTENSION  
 EMFAI48I32ORZ/E - 51E015132 PAG. 6

24 INGRESSI / 16 USCITE  
 24 INPUT / 16 OUTPUT  
 EMFAI24I16OV/S - 51E015103 PAG. 7  
 24 INGRESSI / 16 USCITE RELE'  
 24 INPUT / 16 OUTPUT RELAYS  
 EMFAI24I16OR/S - 51E015104 PAG. 7  
 EMFAI24I16ORZ/S - 51E015105



24 INGRESSI / 16 USCITE  
 24 INPUT / 16 OUTPUT  
 EMFAI24I16OV/S - 51E015103 PAG. 7  
 24 INGRESSI / 16 USCITE RELE'  
 24 INPUT / 16 OUTPUT RELAYS  
 EMFAI24I16OR/S - 51E015104 PAG. 7  
 EMFAI24I16ORZ/S - 51E015105

① Per codici e descrizioni dei cavi precablati vedere alla pag. 5.  
 For codes and description of precables assemblies see list on page 5.



FANUC Series 15i/150i  
 FANUC Series 16i/160i/160is  
 FANUC Series 18i/180i/180is  
 FANUC Series 21i/210i/210is  
 FANUC Series 20i



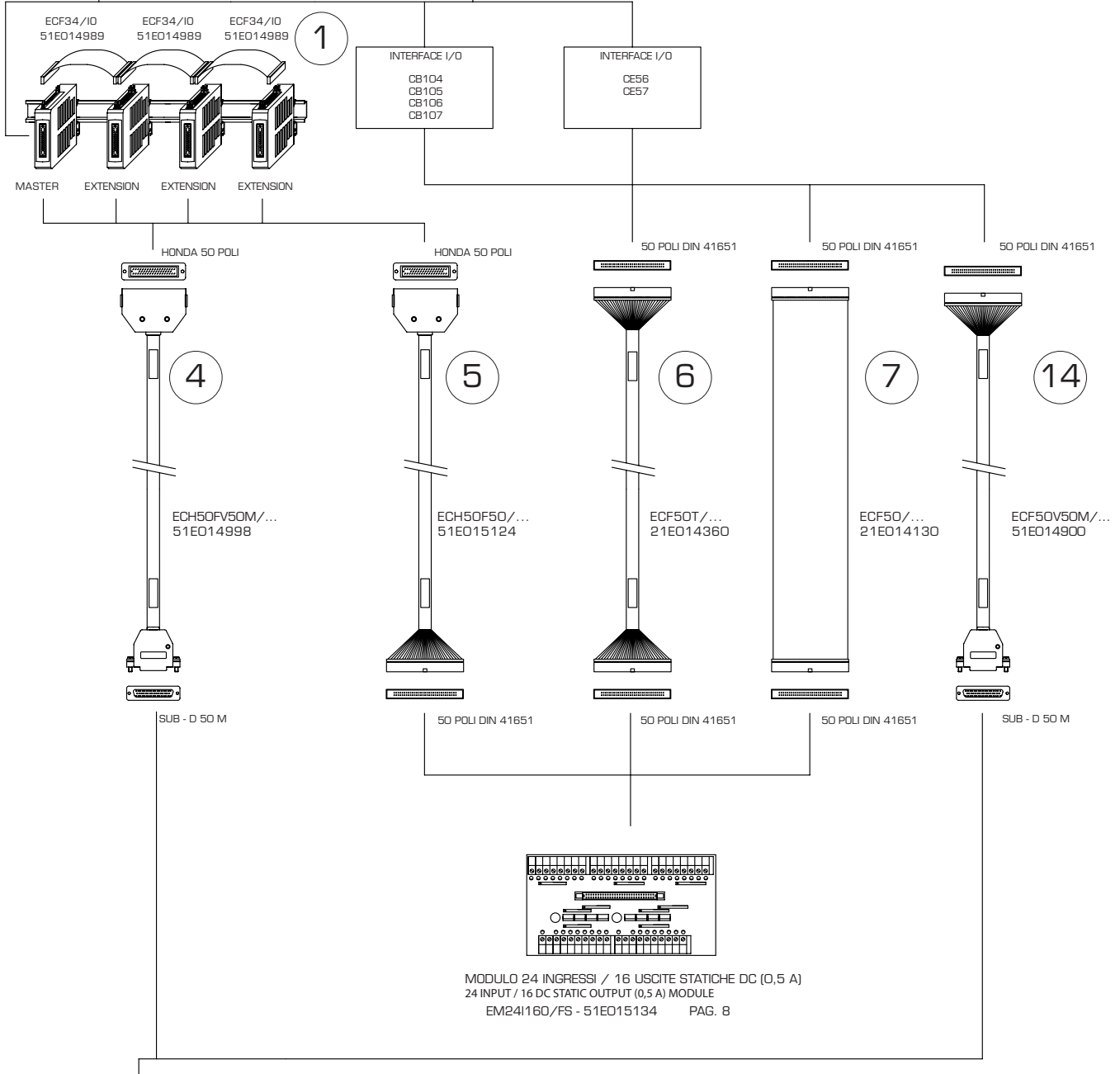
FANUC Power Mate i  
 MODEL D/H

**MASTER** (I/O : 24/16)  
**MASTER** (I/O : 24/16 with MPG)

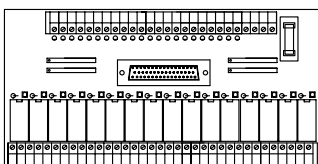
S.N. FANUC A03B-0815-C001  
 S.N. FANUC A03B-0815-C002

**EXTENSION** (I/O : 24/16)  
**EXTENSION** (O : 16 - 2A)

S.N. FANUC A03B-0815-C003  
 S.N. FANUC A03B-0815-C004



MODULO 24 INGRESSI / 16 USCITE STATICHE DC (0,5 A)  
 24 INPUT / 16 DC STATIC OUTPUT (0,5 A) MODULE  
 EM241160/FS - 51E015134 PAG. 8

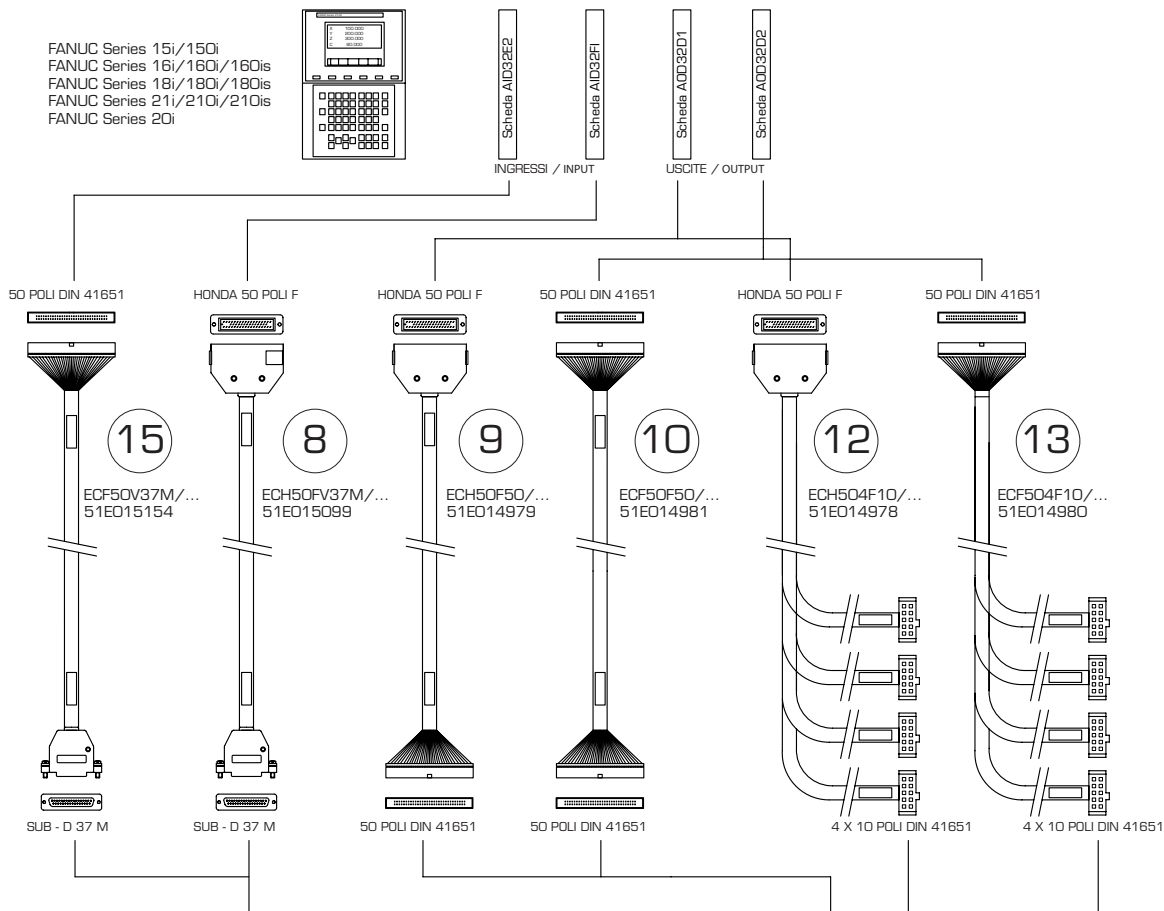


MODULO 24 INGRESSI / 16 USCITE RELE'  
 24 INPUT / 16 OUTPUT RELAYS MODULE  
 EMV50F241160RZ - 51E015087

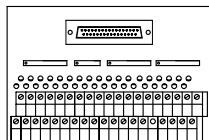
PAG. 7

① ..... ⑭ Per codici e descrizioni dei cavi precablati vedere alla pag. 5.  
 For codes and description of precables assemblies see list on page 5.

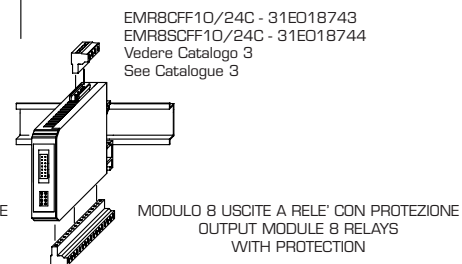
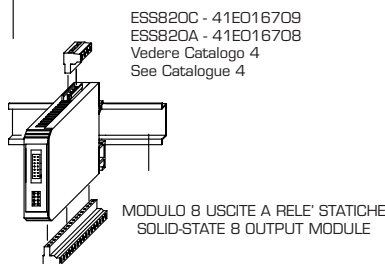
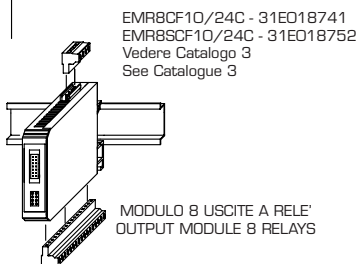
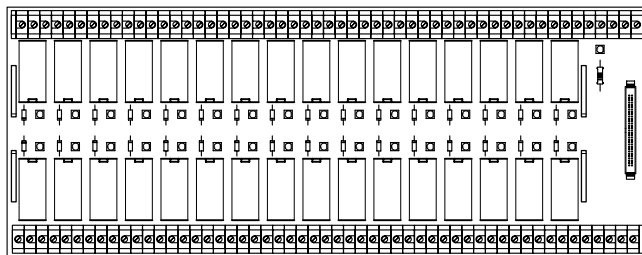
FANUC Series 15i/150i  
 FANUC Series 16i/160i/160is  
 FANUC Series 18i/180i/180is  
 FANUC Series 21i/210i/210is  
 FANUC Series 20i



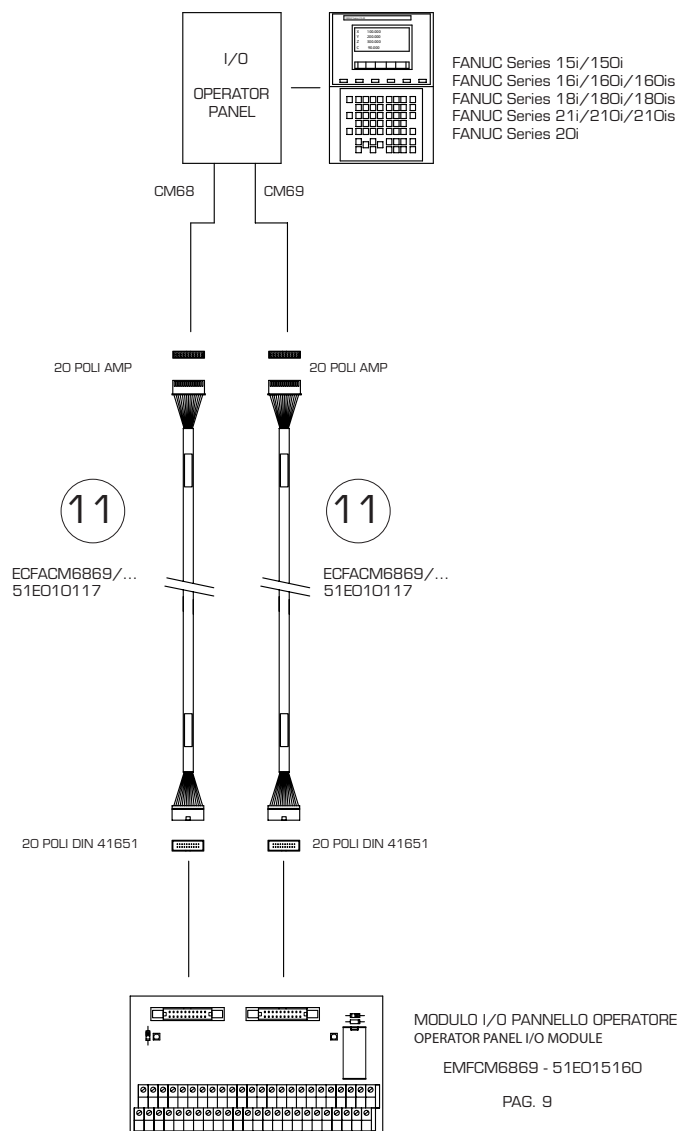
MODULO 32 INGRESSI  
 32 INPUT MODULE  
 EDECV37I - 51E014957  
 EDECV37IV - 51E014958  
 PAG. 8



MODULO 32 USCITE RELE'  
 32 OUTPUT RELAYS MODULE  
 EMESR32Z - 71E025649  
 PAG. 8



8 ..... 15 Per codici e descrizioni dei cavi precablati vedere alla pag. 5.  
 For codes and description of precables assemblies see list on page 5.

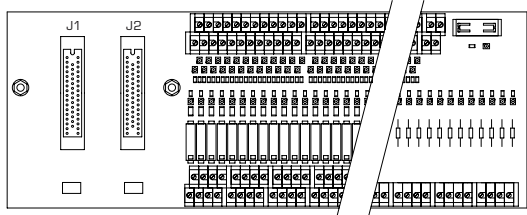
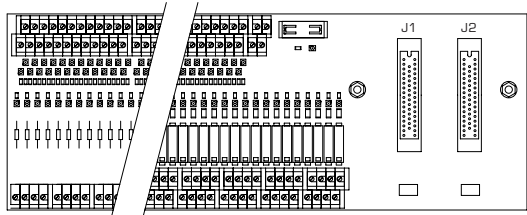


11 Per codici e descrizioni dei cavi precablati vedere alla pag. 5.  
 For codes and description of precables assemblies see list on page 5.

Rif. pag. - figura Ref. page - drawing	Cod. cavo Cable code	Tipo Type	Versione Version
1 - 1	51E014989	ECF34/IO	Cavo di collegamento per moduli A03B-0815-C00...(CA52) Connection cable for A03B-0815-C00... (CA52) modules
2 - 1	51E014989	ECF34/IO	Cavo di collegamento per moduli A03B-0815-C00... (CA52) Connection cable for A03B-0815-C00... (CA52) modules
2 - 4	51E014998	ECH50FV50M/...	Cavo di collegamento per moduli A03B-0815-C00... (CB150) Connection cable for A03B-0815-C00... (CB150) modules
2 - 5	51E015124	ECH50F50/...	Cavo di collegamento per moduli A03B-0815-C00... (CB150) Connection cable for A03B-0815-C00... (CB150) modules
2 - 6	21E014360	ECF50T/...	Cavo di collegamento per CE56-CE57 Connection cable for CE56-CE57
2 - 7	21E014130	ECF50/...	Cavo di collegamento per CE56-CE57 Connection cable for CE56-CE57
2 - 14	51E014900	ECF50V50M/...	Cavo di collegamento per CE56-CE57 Connection cable for CE56-CE57
3 - 15	51E015154	ECF50V37M/...	Cavo di collegamento per AID32E2 Connection cable for AID32E2
3 - 8	51E015099	ECH50FV37M/...	Cavo di collegamento per AID32FI Connection cable for AID32FI
3 - 9	51E014979	ECH50F50/...	Cavo di collegamento per AOD32D1 Connection cable for AOD32D1
3 - 10	51E014981	ECF50F50/...	Cavo di collegamento per AOD32D2 Connection cable for AOD32D2
3 - 12	51E014978	ECH504F10/...	Cavo di collegamento per AOD32D1 Connection cable for AOD32D1
3 - 13	51E014980	ECF504F10/...	Cavo di collegamento per AOD32D2 Connection cable for AOD32D2
4 - 11	51E010117	ECFACM6869/...	Cavo di collegamento per CM68-CM69 Connection cable for CM68-CM69

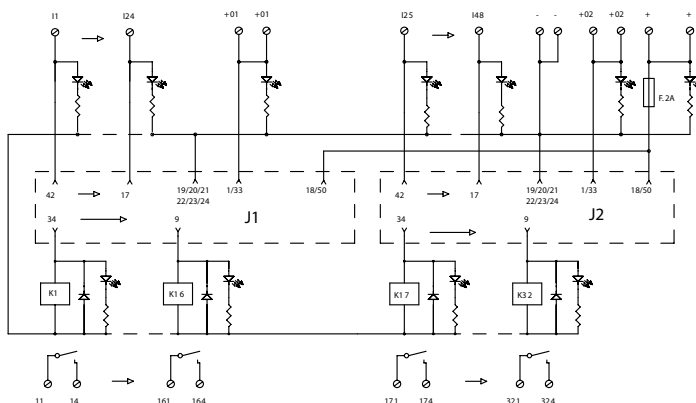
### 48 Ingressi - 32 Uscite

### 48 Inputs - 32 Outputs



MASTER

EXTENSION



J1=J2= Honda 50 Femmina  
 Honda 50 Female  
 JP1=JP2= Connettore flat, DIN 41651 20 poli  
 I.D.C. DIN 41651 connector 20 ways

Segnale Signal	Morsetto T.Blocks	J1
Xn+0.0	I1	42
Xn+0.1	I2	43
Xn+0.2	I3	44
Xn+0.3	I4	45
Xn+0.4	I5	46
Xn+0.5	I6	47
Xn+0.6	I7	48
Xn+0.7	I8	49
Xn+1.0	I9	25
Xn+1.1	I10	26
Xn+1.2	I11	27

Segnale Signal	Morsetto T.Blocks	J1
Xn+1.3	I12	28
Xn+1.4	I13	29
Xn+1.5	I14	30
Xn+1.6	I15	31
Xn+1.7	I16	32
Xn+2.0	I17	10
Xn+2.1	I18	11
Xn+2.2	I19	12
Xn+2.3	I20	13
Xn+2.4	I21	14
Xn+2.5	I22	15

Segnale Signal	Morsetto/Relè T.Blocks/Relays	J1
Xn+2.6	I23	16
Xn+2.7	I24	17
Yn+0.0	O1/K1	34
Yn+0.1	O2/K2	35
Yn+0.2	O3/K3	36
Yn+0.3	O4/K4	37
Yn+0.4	O5/K5	38
Yn+0.5	O6/K6	39
Yn+0.6	O7/K7	40
Yn+0.7	O8/K8	41
Yn+1.0	O9/K9	2

Segnale Signal	Morsetto/Relè T.Blocks/Relays	J1
Yn+1.1	O10/K10	3
Yn+1.2	O11/K11	4
Yn+1.3	O12/K12	5
Yn+1.4	O13/K13	6
Yn+1.5	O14/K14	7
Yn+1.6	O15/K15	8
Yn+1.7	O16/K16	9
OV	OV	19,20,21
DICOM		22,23,24
DOCOM	+01	1,33
+24V	+	18,50

Segnale Signal	Morsetto T.Blocks	J2
Xn+0.0	I25	42
Xn+0.1	I26	43
Xn+0.2	I27	44
Xn+0.3	I28	45
Xn+0.4	I29	46
Xn+0.5	I30	47
Xn+0.6	I31	48
Xn+0.7	I32	49
Xn+1.0	I33	25
Xn+1.1	I34	26
Xn+1.2	I35	27

Segnale Signal	Morsetto T.Blocks	J2
Xn+1.3	I36	28
Xn+1.4	I37	29
Xn+1.5	I38	30
Xn+1.6	I39	31
Xn+1.7	I40	32
Xn+2.0	I41	10
Xn+2.1	I42	11
Xn+2.2	I43	12
Xn+2.3	I44	13
Xn+2.4	I45	14
Xn+2.5	I46	15

Segnale Signal	Morsetto/Relè T.Blocks/Relays	J2
Xn+2.6	I47	16
Xn+2.7	I48	17
Yn+0.0	O17/K17	34
Yn+0.1	O18/K18	35
Yn+0.2	O19/K19	36
Yn+0.3	O20/K20	37
Yn+0.4	O21/K21	38
Yn+0.5	O22/K22	39
Yn+0.6	O23/K23	40
Yn+0.7	O24/K24	41
Yn+1.0	O25/K25	2

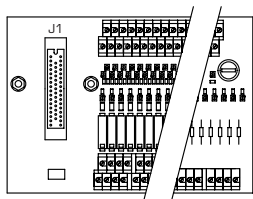
Segnale Signal	Morsetto/Relè T.Blocks/Relays	J2
Yn+1.1	O26/K26	3
Yn+1.2	O27/K27	4
Yn+1.3	O28/K28	5
Yn+1.4	O29/K29	6
Yn+1.5	O30/K30	7
Yn+1.6	O31/K31	8
Yn+1.7	O32/K32	9
OV	OV	19,20,21
DICOM		22,23,24
DOCOM	+02	1,33
+24V	+	18,50

Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMFAI48I32OV/M	51E015118	287 x 118	48 Ingressi - 32 uscite con visualizz. - Master / 48 In - 32 out with disply - Master	-
EMFAI48I32OV/E	51E015119	287 x 118	48 Ingressi - 32 uscite con visualizz. - Espansione / 48 In - 32 out with disply - Extension	-
EMFAI48I32ORZ/M	51E015128	287 x 118	48 Ingressi - 32 uscite con relè zocc. - Master / 48 In - 32 out with socketed relay - Master	B
EMFAI48I32ORZ/E	51E015132	287 x 118	48 Ingressi - 32 uscite con relè zocc. - Espans. / 48 In - 32 out with socketed relay - Extension	B

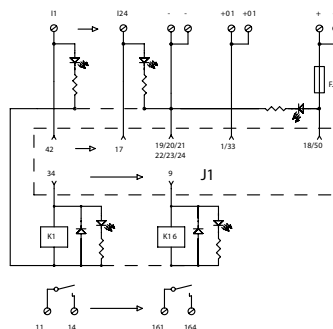


### 24 Ingressi - 16 Uscite

### 24 Inputs - 16 Outputs



J1 = Honda 50 Femmina  
Honda 50 Female



Segnale Signal	Morsetto T.Blocks	J1
Xn+0.0	I1	42
Xn+0.1	I2	43
Xn+0.2	I3	44
Xn+0.3	I4	45
Xn+0.4	I5	46
Xn+0.5	I6	47
Xn+0.6	I7	48
Xn+0.7	I8	49
Xn+1.0	I9	25
Xn+1.1	I10	26
Xn+1.2	I11	27

Segnale Signal	Morsetto T.Blocks	J1
Xn+1.3	I12	28
Xn+1.4	I13	29
Xn+1.5	I14	30
Xn+1.6	I15	31
Xn+1.7	I16	32
Xn+2.0	I17	10
Xn+2.1	I18	11
Xn+2.2	I19	12
Xn+2.3	I20	13
Xn+2.4	I21	14
Xn+2.5	I22	15

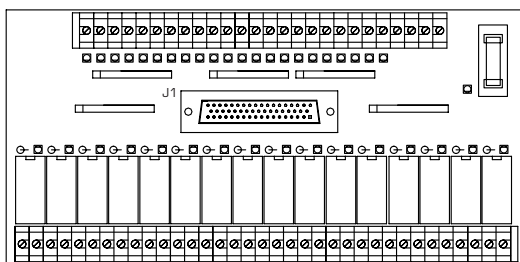
Segnale Signal	Morsetto/Relè T.Blocks/Relays	J1
Xn+2.6	I23	16
Xn+2.7	I24	17
Yn+0.0	O1/K1	34
Yn+0.1	O2/K2	35
Yn+0.2	O3/K3	36
Yn+0.3	O4/K4	37
Yn+0.4	O5/K5	38
Yn+0.5	O6/K6	39
Yn+0.6	O7/K7	40
Yn+0.7	O8/K8	41
Yn+1.0	O9/K9	2

Segnale Signal	Morsetto/Relè T.Blocks/Relays	J1
Yn+1.1	O10/K10	3
Yn+1.2	O11/K11	4
Yn+1.3	O12/K12	5
Yn+1.4	O13/K13	6
Yn+1.5	O14/K14	7
Yn+1.6	O15/K15	8
Yn+1.7	O16/K16	9
0V	OV	19,20,21
DICOM		22,23,24
DOCOM	+01	1,33
+24V	+	18,50

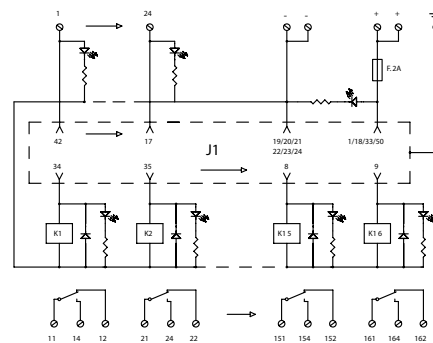
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMFAI24I16OV/S	51E015103	153 x 118	24 Ingressi - 16 uscite con visualizzazione / 24 Inputs - 16 outputs with display	-
EMFAI24I16OR/S	51E015104	153 x 118	24 Ingressi - 16 uscite con relè saldato / 24 Inputs - 16 outputs with soldered relay	B
EMFAI24I16ORZ/S	51E015105	153 x 118	24 Ingressi - 16 uscite con relè zoccolato / 24 Inputs - 16 outputs with socketed relay	B

### 24 Ingressi - 16 Uscite con relè

### 24 Inputs - 16 Outputs with relay



J1 = SUB-D 50 Femmina  
SUB-D 50 Ways female



Segnale Signal	Morsetto T.Blocks	J1
Xn+0.0	I1	42
Xn+0.1	I2	43
Xn+0.2	I3	44
Xn+0.3	I4	45
Xn+0.4	I5	46
Xn+0.5	I6	47
Xn+0.6	I7	48
Xn+0.7	I8	49
Xn+1.0	I9	25
Xn+1.1	I10	26
Xn+1.2	I11	27

Segnale Signal	Morsetto T.Blocks	J1
Xn+1.3	I12	28
Xn+1.4	I13	29
Xn+1.5	I14	30
Xn+1.6	I15	31
Xn+1.7	I16	32
Xn+2.0	I17	10
Xn+2.1	I18	11
Xn+2.2	I19	12
Xn+2.3	I20	13
Xn+2.4	I21	14
Xn+2.5	I22	15

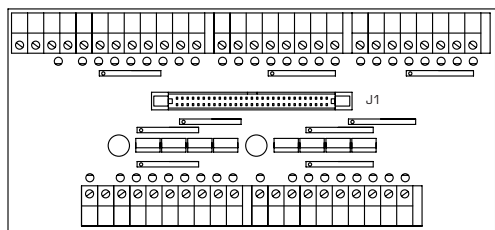
Segnale Signal	Morsetto/Relè T.Blocks/Relays	J1
Xn+2.6	I23	16
Xn+2.7	I24	17
Yn+0.0	K1	34
Yn+0.1	K2	35
Yn+0.2	K3	36
Yn+0.3	K4	37
Yn+0.4	K5	38
Yn+0.5	K6	39
Yn+0.6	K7	40
Yn+0.7	K8	41
Yn+1.0	K9	2

Segnale Signal	Morsetto/Relè T.Blocks/Relays	J1
Yn+1.1	K10	3
Yn+1.2	K11	4
Yn+1.3	K12	5
Yn+1.4	K13	6
Yn+1.5	K14	7
Yn+1.6	K15	8
Yn+1.7	K16	9
0V	OV	19,20,21
DICOM		22,23,24
DOCOM	+24	1,33
+24V		18,50

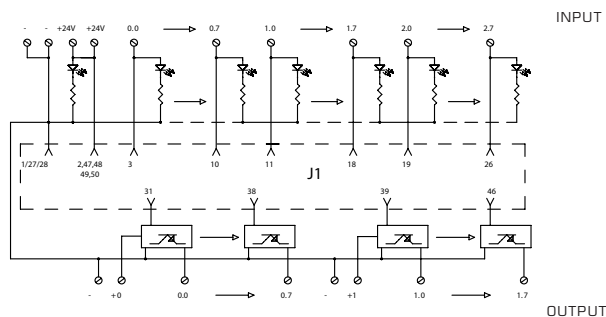
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMV50F24I16ORZ	51E015087	252 x 118	24 Ingressi - 16 uscite con relè zocc. / 24 Inputs - 16 outputs with socketed relay	A

### 24 Ingressi - 16 uscite statiche

### 24 Inputs - 16 static outputs



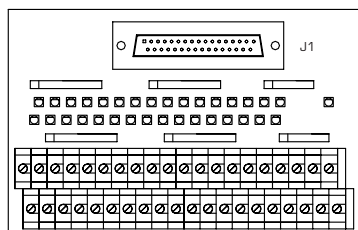
J1= Connettore flat DIN 41651 50 poli  
I.D.C. DIN 41651 connector 50 ways



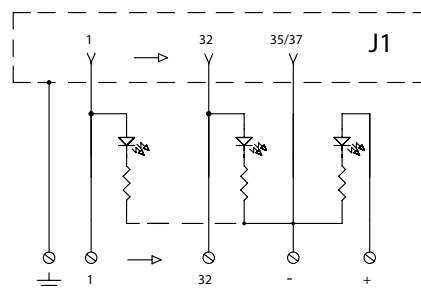
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version
EM24I160/FS	51E015134	158 x 82	24 Ingressi - 16 uscite statiche (0,5 A) / 24 Inputs - 16 DC static outputs (0,5 A)

### 32 Ingressi

### 32 Inputs



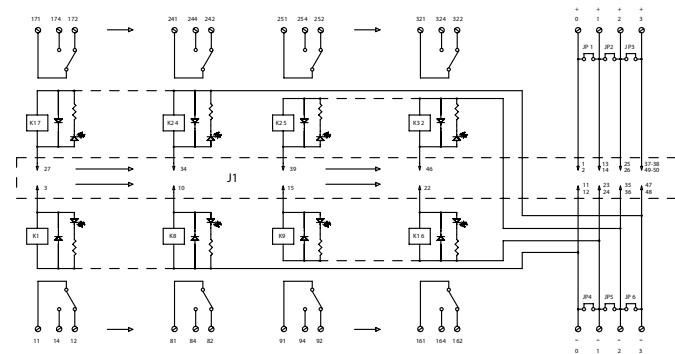
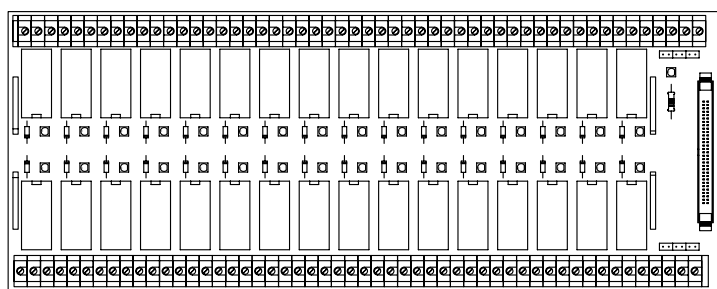
J1= SUB-D 37 Femmina  
SUB-D 37 Ways female



Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version
EDECV37I	51E014957	113 x 82	32 Ingressi / 32 Inputs
EDECV37IV	51E014958	113 x 82	32 Ingressi con visualizzazione / 32 Inputs with display

### 32 Uscite con relè 1 SC 12 A

### 32 Outputs with relay 1 C.O. 12 A

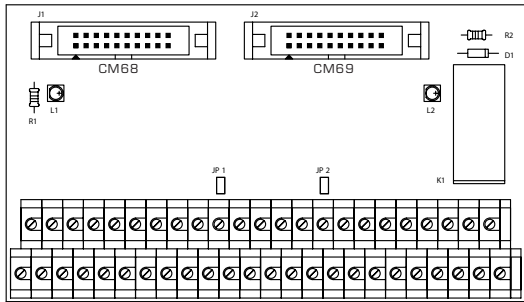


J1= Connettore flat DIN 41651 50 poli  
I.D.C. DIN 41651 connector 50 ways

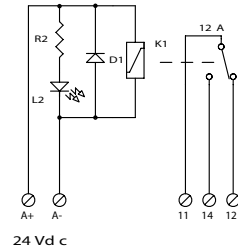
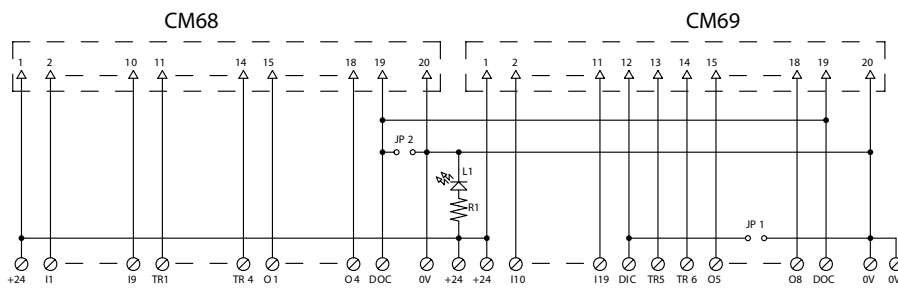
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMESR32Z	71E025649	284 x 118	32 Uscite a relè 1 SC 12 A / 32 Outputs with relay 1 C.O. 12 A	A

I/O Pannello operatore

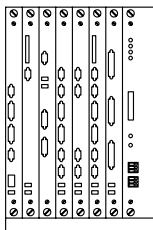
Operator panel I/O



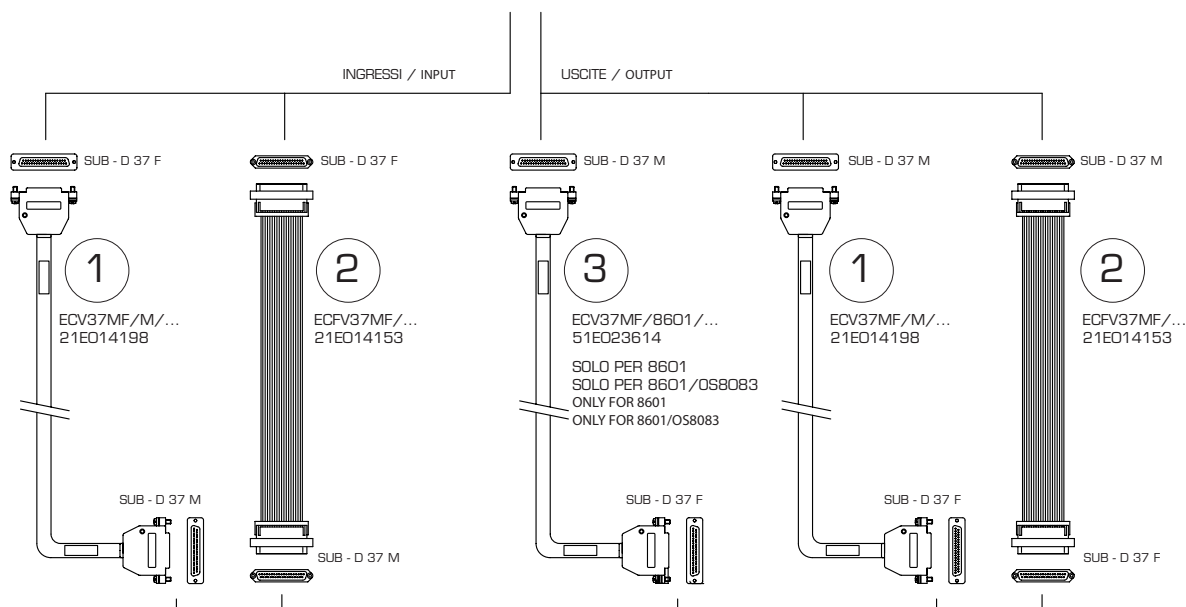
J1 / J2= Connettore flat DIN 41651 20 poli  
I.D.C. DIN 41651 connector 20 ways



Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMFCM6869	51E015160	152 x 82	Pannello operatore I/O / Operator panel I/O	A



CNC OSAI  
 OS8083  
 OS8270  
 8601  
 8601 - OS8083



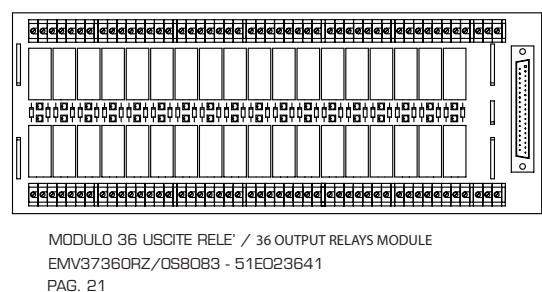
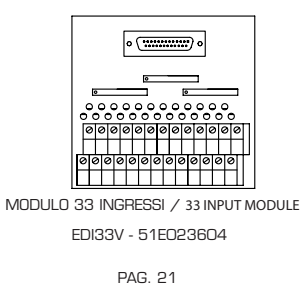
1  
 ECV37MF/M/...  
 21E014198

2  
 ECFV37MF/...  
 21E014153

3  
 ECV37MF/8601/...  
 51E023614  
 SOLO PER 8601  
 SOLO PER 8601/OS8083  
 ONLY FOR 8601  
 ONLY FOR 8601/OS8083

1  
 ECV37MF/M/...  
 21E014198

2  
 ECFV37MF/...  
 21E014153

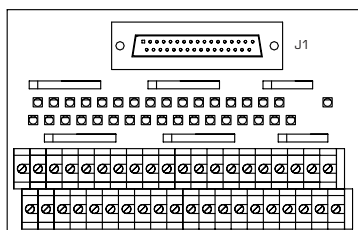


① ..... ③ Per codici e descrizioni dei cavi precablati vedere alla pag. 21.  
 For codes and description of precables assemblies see list on page 21.

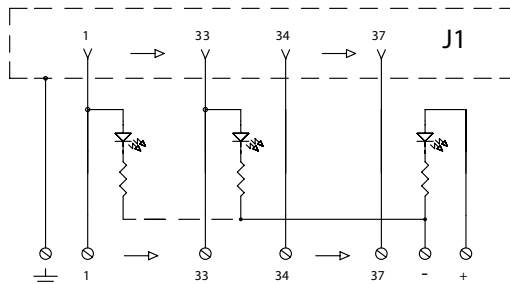
Rif. pag. - figura Ref. page - drawing	Cod. cavo Cable code	Tipo Type	Versione Version
20 - 1	21E014198	ECV37MF/M/...	Cavo di collegamento OS8083 Connection cable for OS8083
20 - 2	21E014153	ECFV37MF/...	Cavo di collegamento per OS8083 Connection cable for OS8083
20 - 3	51E023614	ECV37MF/8601/...	Cavo di collegamento per 8601/8601-OS8083 Connection cable for 8601/8601-OS8083

### 33 Ingressi

### 33 Inputs



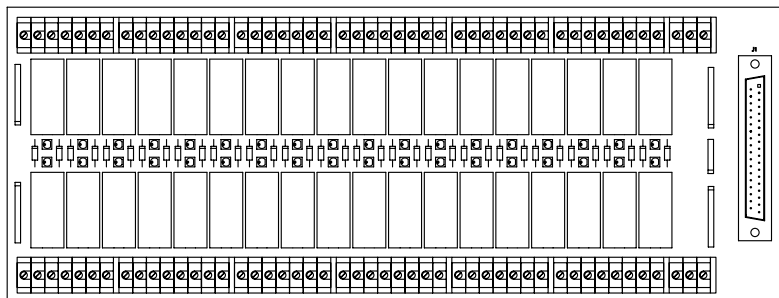
J1= SUB-D 37 Femmina  
SUB-D 37 Ways female



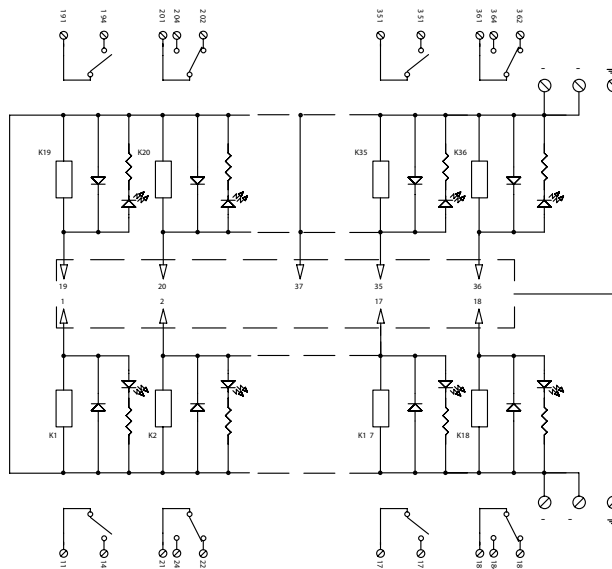
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version
EDI33V	51E023604	113 x 82	33 Ingressi con visualizzazione / 33 Inputs with display

### 36 Uscite a relè

### 36 Outputs with relay



J1= SUB-D 37 Maschio  
SUB-D 37 Ways male



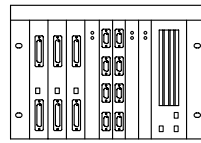
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMV3736OR/OS8083	51E023640	285 x 118	36 Uscite con relè saldato / 36 Outputs with soldered relay	A
EMV3736ORZ/OS8083	51E023641	285 x 118	36 Uscite con relè zoccolato / 36 Outputs with socketed relay	A

Per caratteristiche tecniche vedere a pag. 101  
For technical data see page 101

Nelle ordinazioni dopo la "/..." indicare la lunghezza in metri del cavo.

At the time of placing your order please indicate the cable length in meters after the designation "/..." in the type column.

NUM 1020  
NUM 1040  
AXIUM POWER FIRST  
AXIUM POWER ADVANCE



NUM 1060  
NUM 1080

INGRESSI / INPUT

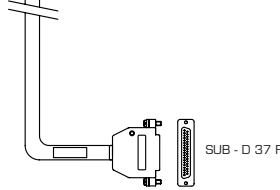
USCITE / OUTPUT

SOURIAU

SOURIAU

1

ECV37FS42/...  
51E314925

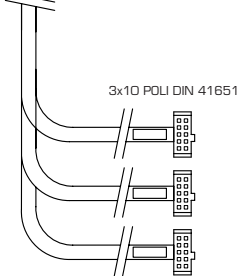


SUB - D 37 F

INGRESSI / INPUT

2

ECS423F10/...  
51E314919



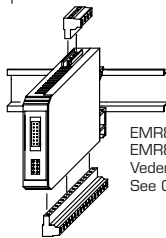
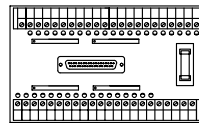
3x10 POLI DIN 41651

USCITE / OUTPUT

MODULO 32 INGRESSI / 32 INPUT MODULE

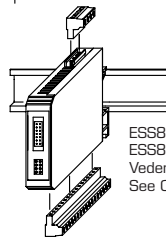
ENUM3732I/M - 51E314920  
ENUM3732IV/M - 51E314922

PAG. 31



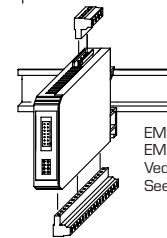
MODULO 8 USCITE A RELE'  
OUTPUT MODULE 8 RELAYS

EMR8CF10/24C - 31E018741  
EMR8SCF10/24C - 31E018752  
Vedere Catalogo 3  
See Catalogue 3



MODULO 8 USCITE A RELE' STATICHE  
SOLID-STATE 8 OUTPUT MODULE

ESS820C - 41E016709  
ESS820A - 41E016708  
Vedere Catalogo 4  
See Catalogue 4



MODULO 8 USCITE A RELE' CON PROTEZIONE  
OUTPUT MODULE 8 RELAYS  
WITH PROTECTION

EMR8CFF10/24C - 31E018743  
EMR8SCFF10/24C - 31E018744  
Vedere Catalogo 3  
See Catalogue 3

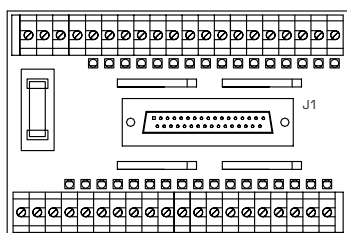
① ..... ②

Per codici e descrizioni dei cavi precablati vedere alla pag. 31.  
For codes and description of precables assemblies see list on page 31.

Rif. pag. - figura Ref. page - drawing	Cod. cavo Cable code	Tipo Type	Versione Version
31 - 1 51E314925	ECV37FS42/...	Cavo di collegamento per ingressi NUM 1060 Connection cable for inputs NUM 1060	
31 - 2 51E314919	ECS423F10/...	Cavo di collegamento per uscite NUM 1060 Connection cable for outputs NUM 1060	

### 32 Ingressi

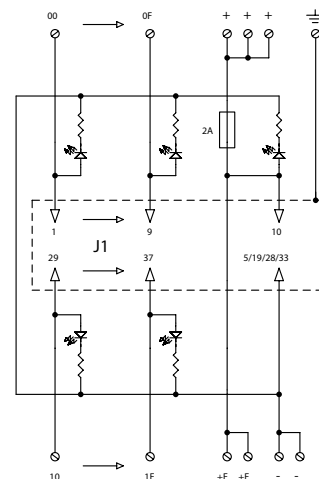
### 32 Inputs



J1 = SUB-D 37 Maschio  
SUB-D 37 Ways male

Segnale Signal	Morsetto T.Blocks	J1
EN0/EN20	00	1
EN1/EN21	01	20
EN2/EN22	02	2
EN3/EN23	03	21
EN4/EN24	04	3
EN5/EN25	05	22
EN6/EN26	06	4
EN7/EN27	07	23
EN8/EN28	08	24
EN9/EN29	09	6
ENA/EN2A	0A	25
ENB/EN2B	0B	7
ENC/EN2C	0C	26
END/EN2D	0D	8
ENE/EN2E	0E	27
ENF/EN2F	0F	9
GNDE	-	5,19 28,33

Segnale Signal	Morsetto T.Blocks	J1
EN10/EN30	10	29
EN11/EN31	11	11
EN12/EN32	12	30
EN13/EN33	13	12
EN14/EN34	14	31
EN15/EN35	15	13
EN16/EN36	16	32
EN17/EN37	17	14
EN18/EN38	18	15
EN19/EN39	19	34
EN1A/EN3A	1A	16
EN1B/EN3B	1B	35
EN1C/EN3C	1C	17
EN1D/EN3D	1D	36
EN1E/EN3E	1E	18
EN1F/EN3F	1F	37
P24VE	+	10

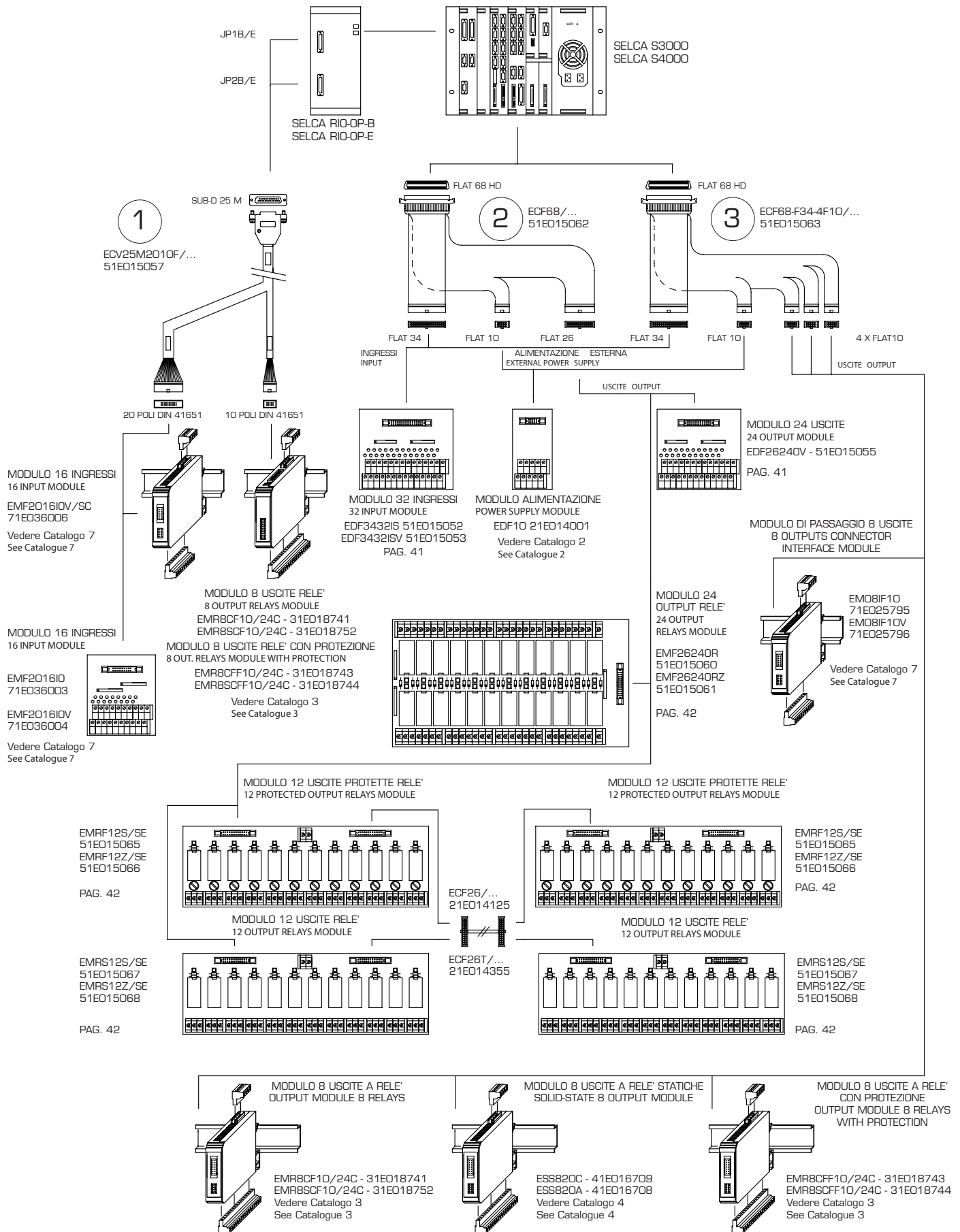


Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version
ENUM3732I/M	51E314920	113 x 82	32 Ingressi / 32 Inputs
ENUM3732IV/M	51E314922	113 x 82	32 Ingressi con visualizzazione / 32 Inputs with display

Per caratteristiche tecniche vedere a pag. 101  
For technical data see page 101

Nelle ordinazioni dopo la "/..." indicare la lunghezza in metri del cavo.

At the time of placing your order please indicate the cable length in meters after the designation "/..." in the type column.



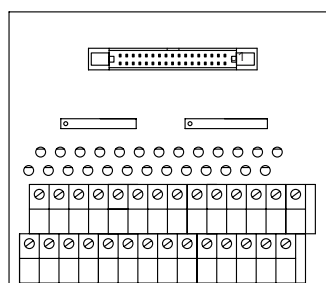
① ..... ③ Per codici e descrizioni dei cavi precablati vedere alla pag. 41.  
For codes and description of precables assemblies see list on page 41.



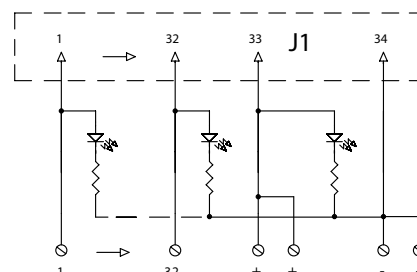
Rif. pag. - figura Ref. page - drawing	Cod. cavo Cable code	Tipo Type	Versione Version
40 - 1	51E015057	ECV25M2010F/...	Cavo di collegamento per SELCA RIO OP-B / OP-E Connection cable for SELCA RIO OP-B / OP-E
40 - 2	51E015062	ECF68/...	Cavo di collegamento per SELCA S3000 - S4000 Connection cable for SELCA S3000 - S4000
40 - 3	51E015063	ECF68-F34-4F10/...	Cavo di collegamento per SELCA S3000 - S4000 Connection cable for SELCA S3000 - S4000

### 32 Ingressi

### 32 Inputs



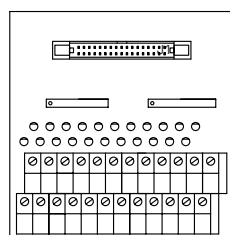
J1= Connettore flat DIN 41651 34 poli  
I.D.C. DIN 41651 connector 34 ways



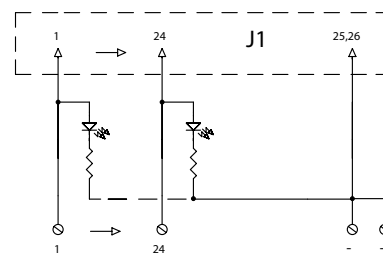
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version
EDF3432IS	51E015052	113 x 82	32 Ingressi / 32 Inputs
EDF3432ISV	51E015053	113 x 82	32 Ingressi con visualizzazione / 32 Inputs with display

### 24 Uscite

### 24 Outputs



J1= Connettore flat DIN 41651 26 poli  
I.D.C. DIN 41651 connector 26 ways



Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version
EDF2624OV	51E015055	90 x 82	24 Uscite con visualizzazione / 24 Outputs with display

Per caratteristiche tecniche vedere a pag. 101

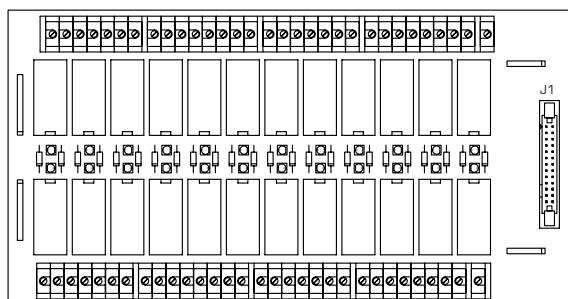
For technical data see page 101

Nelle ordinazioni dopo la "/..." indicare la lunghezza in metri del cavo.

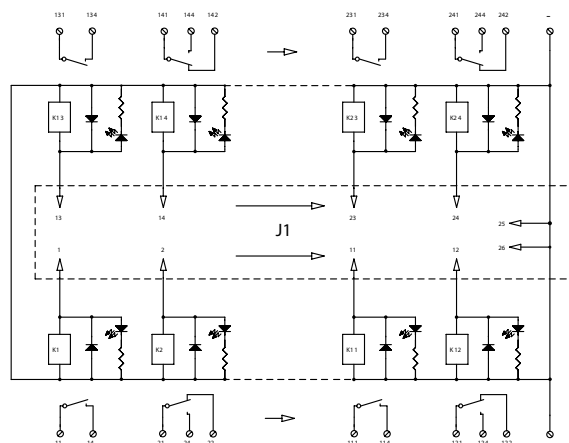
At the time of placing your order please indicate the cable length in meters after the designation "/..." in the type column.

### 24 Uscite a relè

### 24 Outputs with relay



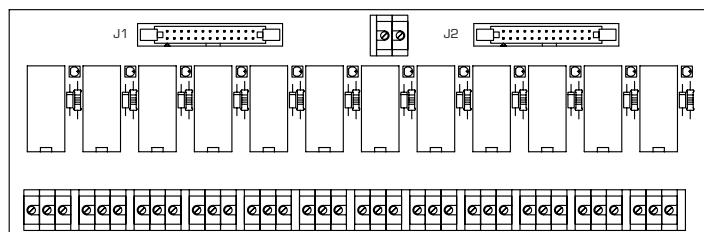
J1 = Connettore flat DIN 41651 26 poli  
I.D.C. DIN 41651 connector 26 ways



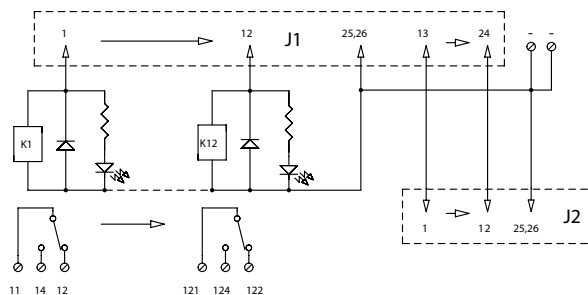
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMF2624OR	51E015060	232 x 118	24 Uscite con relè saldato / 24 Outputs with soldered relay	A
EMF2624ORZ	51E015061	232 x 118	24 Uscite con relè zoccolato / 24 Outputs with socketed relay	A

### 12 Uscite a relè

### 12 Outputs with relay



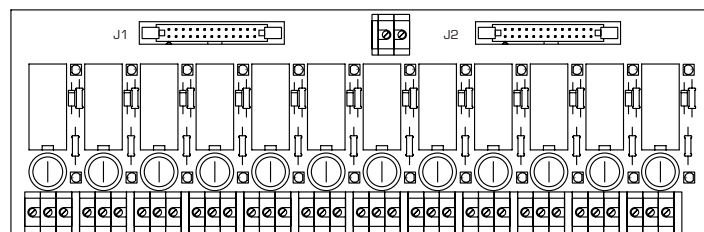
J1=J2= Connettore flat DIN 41651 26 poli  
I.D.C. DIN 41651 connector 26 ways



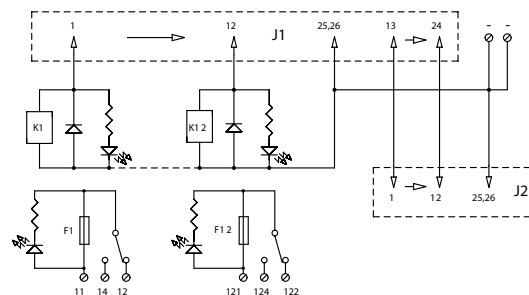
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMRS12S/SE	51E015067	225 x 82	12 Uscite con relè saldato / 12 Outputs with soldered relay	A
EMRS12Z/SE	51E015068	225 x 82	12 Uscite con relè zoccolato / 12 Outputs with socketed relay	A

### 12 Uscite protette a relè

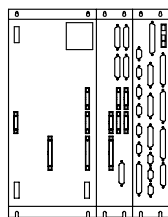
### 12 Protected outputs with relay



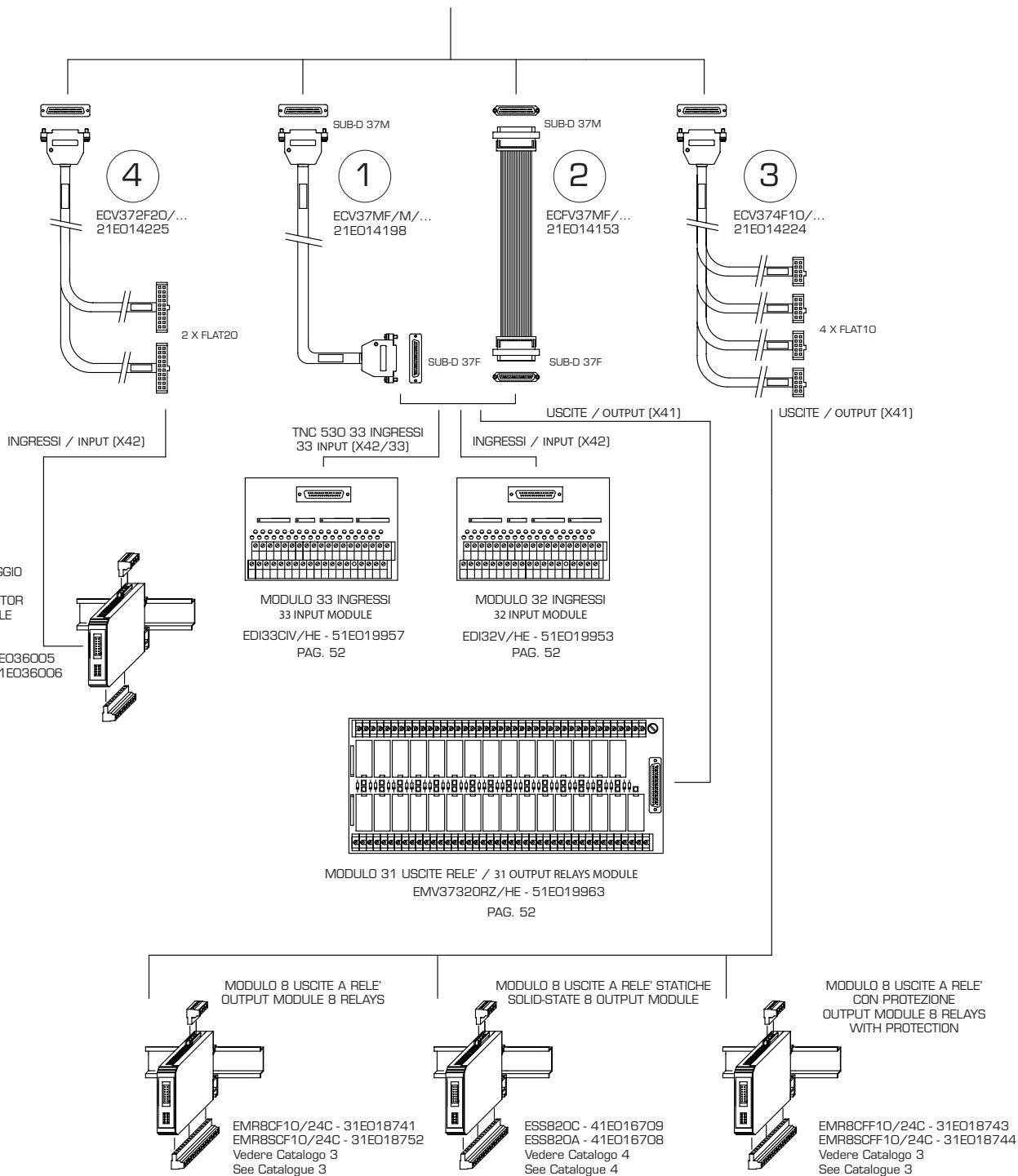
J1=J2= Connettore flat DIN 41651 26 poli  
I.D.C. DIN 41651 connector 26 ways



Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMRF12S/SE	51E015065	225 x 82	12 Uscite protette con relè saldato / 12 Outputs with soldered relay	A
EMRF12Z/SE	51E015066	225 x 82	12 Uscite protette con relè zoccolato / 12 Outputs with socketed relay	A



HEIDENHAIN TNC 410  
 HEIDENHAIN TNC 426  
 HEIDENHAIN TNC 430  
 HEIDENHAIN TNC 530  
 HEIDENHAIN MANUAL plus M



① ..... ④

Per codici e descrizioni dei cavi precablati vedere alla pag. 52.

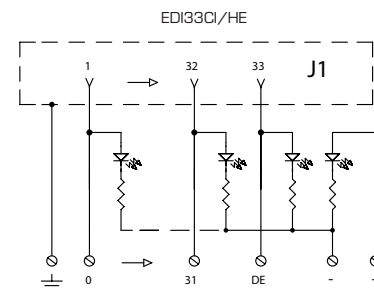
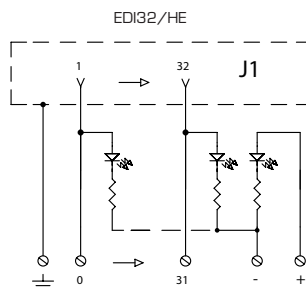
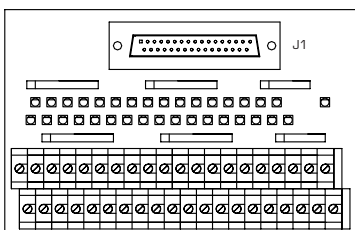
For codes and description of precables assemblies see list on page 52.

Rif. pag. - figura Ref. page - drawing	Cod. cavo Cable code	Tipo Type	Versione Version
51 - 1	21E014198	ECV37MF/M/...	Cavo di collegamento per I/O Connection cable for I/O
51 - 2	21E014153	ECFV37MF/...	Cavo di collegamento per I/O Connection cable for I/O
51 - 3	21E014224	ECV374F10/...	Cavo di collegamento per I/O Connection cable for I/O
51 - 4	21E014225	ECV372F20/...	Cavo di collegamento per I/O Connection cable for I/O

32 Ingressi - 33 Ingressi

32 Inputs - 33 Inputs

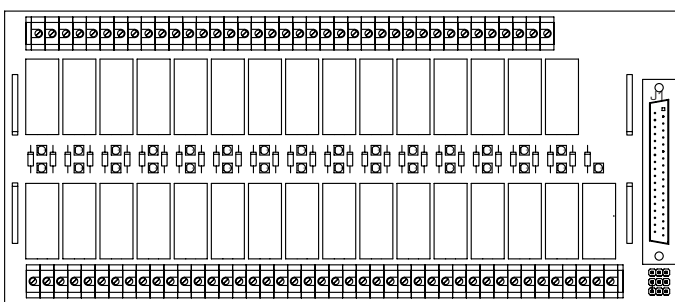
J1= SUB-D 37 Maschio  
SUB-D 37 Ways male



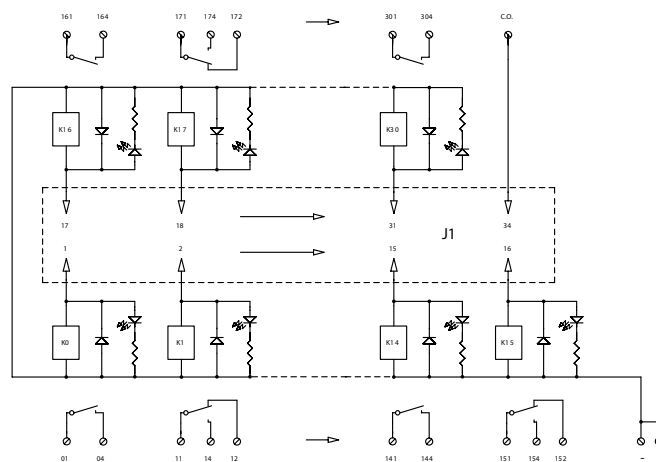
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version
EDI32V/HE	51E019953	113 x 82	32 Ingressi con visualizzazione / 32 Inputs with display
EDI33VCI/HE	51E019957	113 x 82	33 Ingressi con visualizzazione / 33 Inputs with display

31 Uscite a rele

31 Outputs with relay



J1= SUB-D 37 Maschio  
SUB-D 37 Ways male



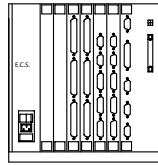
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMV3732ORZ/HE	51E019963	250 x 118	31 Uscite relè zoccolato / 32 Outputs with socketed relay	A

Per caratteristiche tecniche vedere a pag. 101

For technical data see page 101

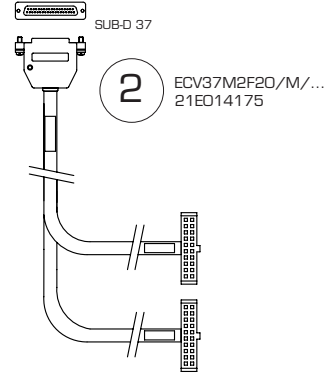
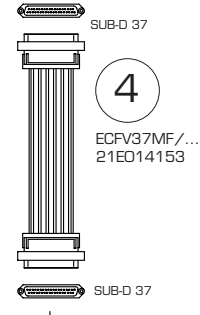
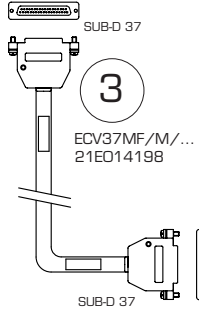
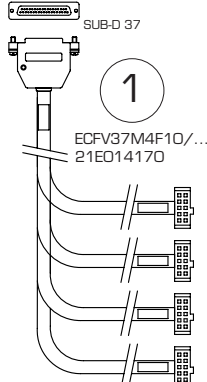
Nelle ordinazioni dopo la "/..." indicare la lunghezza in metri del cavo.

At the time of placing your order please indicate the cable length in meters after the designation "/..." in the type column.

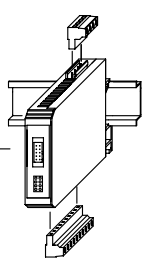


C.N.C. ECS  
C.N.C. ECS - I/O CANopen ( X1 - X2 - X3)

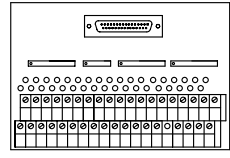
INGRESSI - USCITE / INPUT - OUTPUT



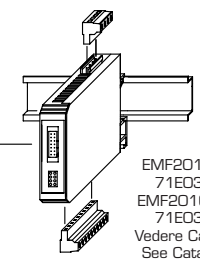
MODULO DI PASSAGGIO  
8 USCITE  
8 OUTPUTS CONNECTOR  
INTERFACE MODULE  
EMOBIF10  
71E025795  
EMOBIF10V  
71E025796  
Vedere Catalogo 7  
See Catalogue 7



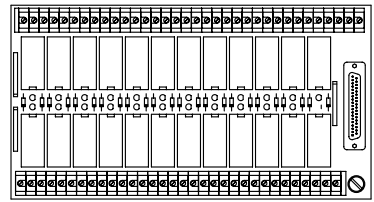
MODULO 32 INGRESSI  
32 INPUT MODULE  
EDECV37I - 51E014957  
EDECV37IV - 51E014958  
PAG. 62



MODULO DI PASSAGGIO 16 INGRESSI  
16 INPUTS CONNECTOR INTERFACE  
MODULE

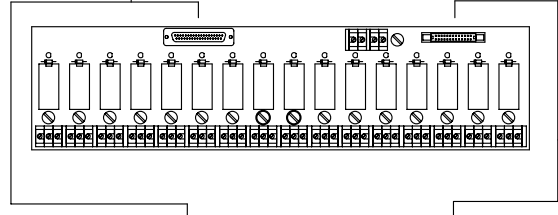


EMF2016I0/SC  
71E036005  
EMF2016I0V/SC  
71E036006  
Vedere Catalogo 7  
See Catalogue 7



MODULO 32 USCITE RELE'  
32 OUTPUT RELAYS MODULE  
EMECV3732ORZ - 51E114949  
PAG. 62

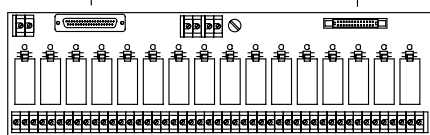
MODULO 16 USCITE  
PROTETTE RELE'  
16 PROTECTED OUTPUT  
RELAYS MODULE  
EMECV3716ORZF - 51E114923  
PAG. 63



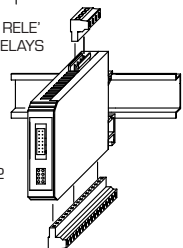
ECF20/... - 21E014124  
ECF20T/... - 21E014354

EMECF2016ORZ - 51E0114950  
EMECF2016ORZF - 51E0114951  
PAG. 63

MODULO 16 USCITE RELE'  
16 OUTPUT RELAYS MODULE  
EMECV3716ORZ - 51E114938  
PAG. 63

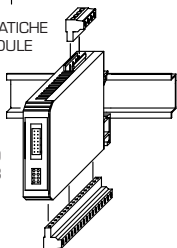


MODULO 8 USCITE A RELE'  
OUTPUT MODULE 8 RELAYS



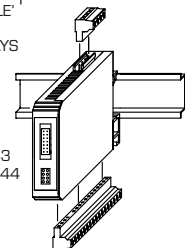
EMR8CF10/24C - 31E018741  
EMR8SCF10/24C - 31E018752  
Vedere Catalogo 3  
See Catalogue 3

MODULO 8 USCITE A RELE' STATICHE  
SOLID-STATE 8 OUTPUT MODULE



ESS820C - 41E016709  
ESS820A - 41E016708  
Vedere Catalogo 4  
See Catalogue 4

MODULO 8 USCITE A RELE'  
CON PROTEZIONE  
OUTPUT MODULE 8 RELAYS  
WITH PROTECTION



EMR8CFF10/24C - 31E018743  
EMR8SCFF10/24C - 31E018744  
Vedere Catalogo 3  
See Catalogue 3

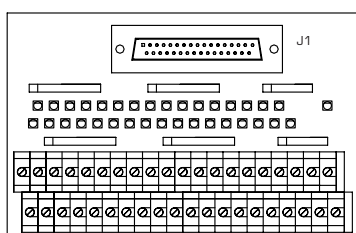
① ..... ④

Per codici e descrizioni dei cavi precablati vedere alla pag. 62.  
For codes and description of precables assemblies see list on page 62.

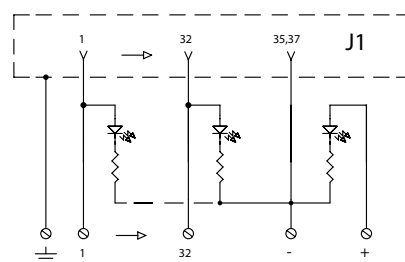
Rif. pag. - figura Ref. page - drawing	Cod. cavo Cable code	Tipo Type	Versione Version
61 - 1 21E014170	ECFV37M4F10/...	Cavo di collegamento per I/O ECS - I/O CANopen X1-X3 Connection cable for I/O ECS - I/O CANopen X1-X3	
61 - 2 21E014175	ECFV37M2F20/...	Cavo di collegamento per I/O ECS - I/O CANopen X1-X3 Connection cable for I/O ECS - I/O CANopen X1-X3	
61 - 3 21E014198	ECV37MF/M/...	Cavo di collegamento per I/O ECS - I/O CANopen X1-X3 Connection cable for I/O ECS - I/O CANopen X1-X3	
61 - 4 21E014153	ECFV37MF/...	Cavo di collegamento per I/O ECS - I/O CANopen X1-X3 Connection cable for I/O ECS - I/O CANopen X1-X3	

32 Ingressi

32 Inputs



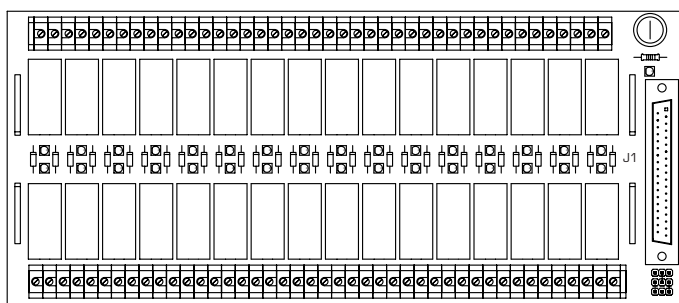
J1= SUB-D 37 Femmina  
SUB-D 37 Ways female



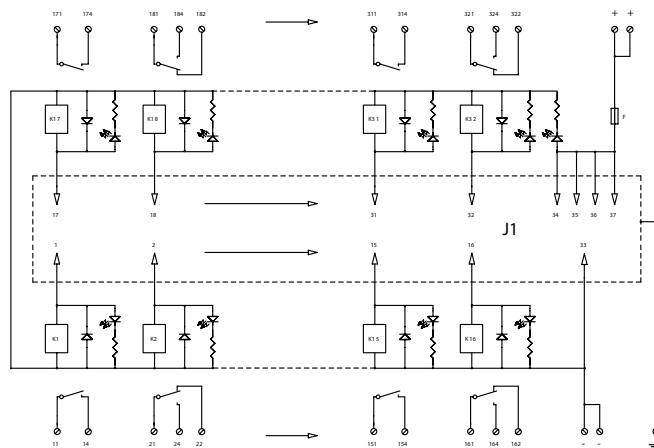
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version
EDECV37I	51E014957	113 x 82	32 Ingressi / 32 Inputs
EDECV37IV	51E014958	113 x 82	32 Ingressi con visualizzazione / 32 Inputs with display

32 Uscite a relè

32 Outputs with relay



J1= SUB-D 37 Maschio  
SUB-D 37 Ways male



Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMECV3732ORZ	51E114949	250 x 118	32 Uscite con relè zoccolato / 32 Outputs with socketed relay	A

Per caratteristiche tecniche vedere a pag. 101

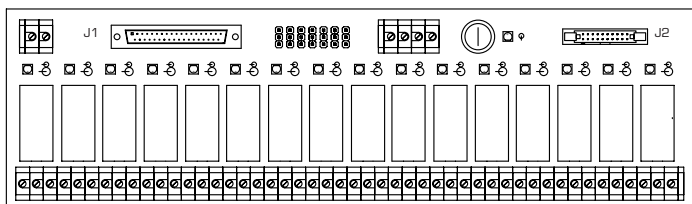
For technical data see page 101

Nelle ordinazioni dopo la "/..." indicare la lunghezza in metri del cavo.

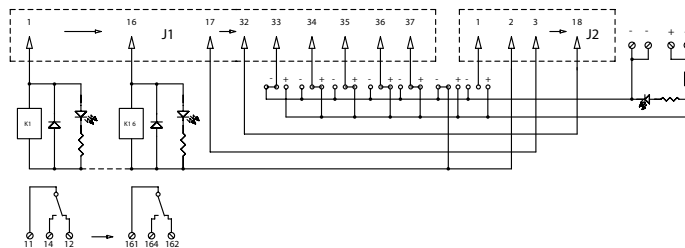
At the time of placing your order please indicate the cable length in meters after the designation "/..." in the type column.

16 Uscite a relè

16 Outputs with relay



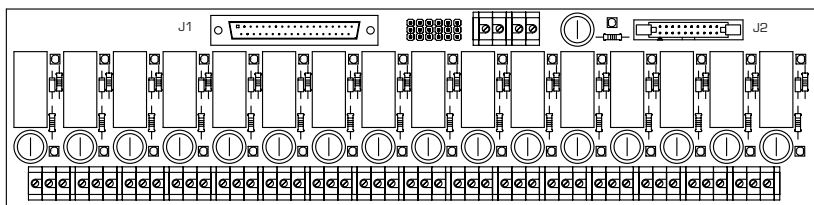
J1= SUB-D 37 Maschio  
SUB-D 37 Ways male  
J2= Connettore flat DIN 41651 20 poli  
I.D.C. DIN 41651 connector 20 ways



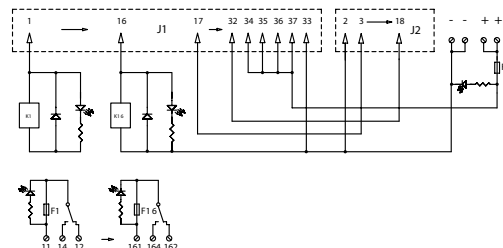
Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMECV3716ORZ	51E114938	270 x 82	16 Uscite con relè zoccolato / 16 Outputs with socketed relay	A
EMECF2016ORZ	51E114950	270 x 82	Numeraz. espansione / Num. extension 171-174-172.....321-324-322	A

16 Uscite protette a relè

16 Protected outputs with relay

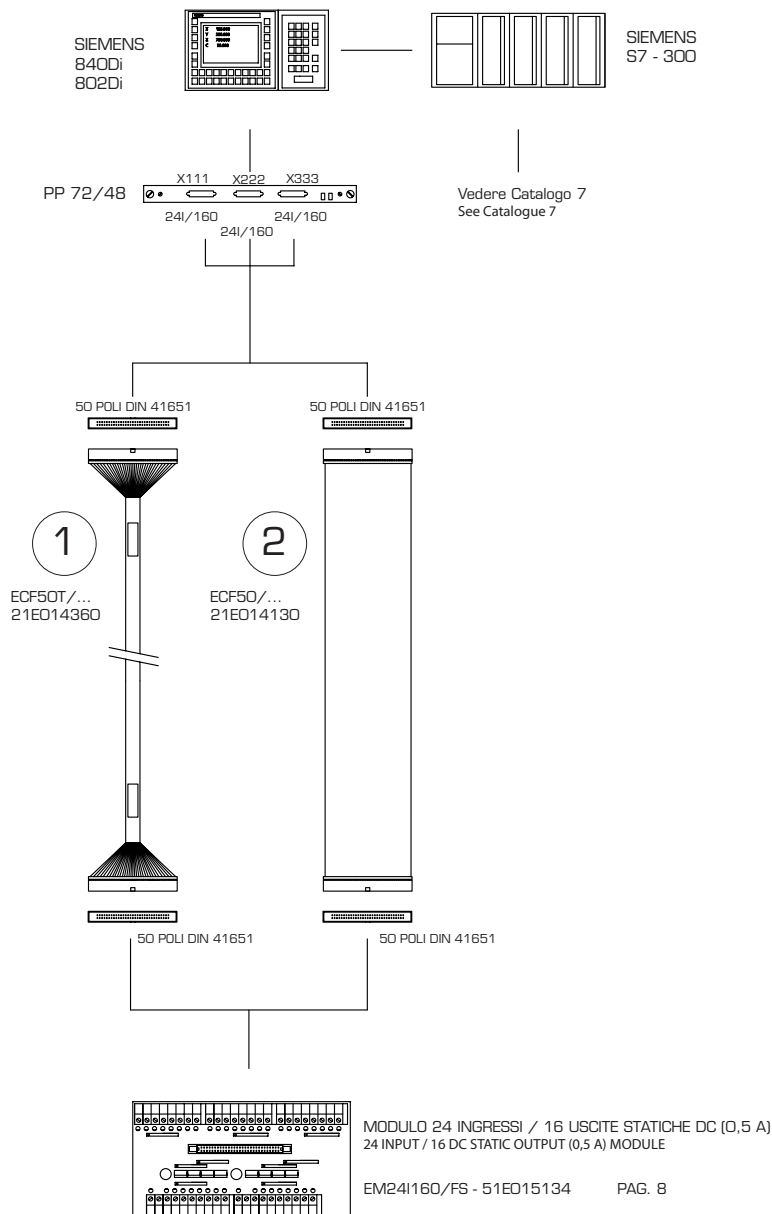


J1= SUB-D 37 Maschio  
SUB-D 37 Ways male  
J2= Connettore flat DIN 41651 20 poli  
I.D.C. DIN 41651 connector 20 ways



Tipo Type	Codice Code	Dim. [mm] L x B	Versione Version	Relè Relays
EMECV3716ORZF	51E114923	304 x 82	16 Uscite protette con relè zoccolato / 16 Protected outputs with socketed relay	A
EMECF2016ORZF	51E114951	304 x 82	Numeraz. espansione / Num. extension 171-174-172.....321-324-322	A

Per caratteristiche tecniche vedere a pag. 1001  
For technical data see page 101



Rif. pag. - figura Ref. page - drawing	Cod. cavo Cable code	Tipo Type	Versione Version
90 - 1	21E014360	ECF50T/... Cavo di collegamento per I/O Connection cable for I/O	
90 - 2	21E014130	ECF50/... Cavo di collegamento per I/O Connection cable for I/O	

Nelle ordinazioni dopo la "/..." indicare la lunghezza in metri del cavo.

At the time of placing your order please indicate the cable length in meters after the designation "/..." in the type column.



**Moduli di passaggio**

**Connectors interface module**

Tensione nominale	Nominal voltage	24 Vdc $\pm$ 10%
Corrente max.(per canale)	Max. current (for channel)	1 A
Assorbimento (per canale)	Absorption (for channel)	5 mA (solo con visualizzazione / only with display)
Isolamento	Insulation	500 Vac (solo vers. senza visualizzazione / only without display)

**Moduli a relè**

**Relays module**

Tensione nominale	Nominal voltage	24 Vdc $\pm$ 10%
Corrente max.(per canale)	Max. current (for channel)	vedere tabella relè / see relays table
Assorbimento (per canale)	Absorption (for channel)	20 mA
Isolamento	Insulation	vedere tabella relè / see relays table

**Dati tecnici generali**

**General specifications**

Temperatura di funzionamento	Operating temperature	-25...+50° C
Montaggio	Mounting	a scatto su profilo / Snap-in mounting on DIN TS32 TS35

**Morsetti**

**Terminal blocks**

<b>Descrizione</b> Description	<b>Sezione cavi flessibili</b> Fine-wired section
-----------------------------------	--

Morsetto a vite / Screw terminal blocks

max. 1,5 mm<sup>2</sup> (14 AWG)

E' possibile avere alcuni prodotti con morsetti diversi da quelli standard indicati (tipo a vite) e precisamente il tipo a molla ed il tipo estraibile.

Per codici ed informazioni tecniche rivolgersi in sede.

For some products is possible to change the standard screw terminal blocks choosing pluggable terminal blocks or screwless terminal blocks.

Please contact us for codes and technical information.

**Relè**

**Relays**

Tipo	Type	A	B
Descrizione	Description	Mecc. 1 SC / Mechanical 1 CO	Mecc. 1 NA / Mechanical 1 NO
Tensione di ingresso	Input voltage	24 Vdc	24 Vdc
Tensione max contatto	Max switching voltage	440 Vac 300 Vdc	270 Vac 150 Vdc
Corrente nominale	Nominal current	12 A	5 A
Carico max COS $\varphi=1$	Max load COS $\varphi=1$	12 A 250 Vac, 12 A 24 Vdc	5 A 250 Vac, 5 A 30 Vdc
Carico max COS $\varphi=0,4$	Max load COS $\varphi=0,4$	5 A 250 Vac, 5 A 24 Vdc	-
Carico min	Min load	100 mA / 5 Vdc	0,1 mA / 100 mVdc
$\Delta t$ on	$\Delta t$ on	7 mSec.	-
$\Delta t$ off	$\Delta t$ off	2 mSec. (dc)	-
Isolamento cont. bobina	Contact-coil insulation	5 KVac	2 KVac
Isolamento tra contatti	Insulation between contacts	1 KVac	750 Vac
Vita meccanica	Mechanical life	20x10 <sup>6</sup> cicli / cycles	20x10 <sup>6</sup> cicli / cycles

**Dimensioni**

**Dimensions**

