

motore BAUKULLER

Tipo DSZ-200KS54W-030-5

poli V 350 A 38 Giri 300 Nm

$H_z = 75$ kW 16

Dati encoder:

Marca HEIDENHAIN Tipo AK ERM 280 Impulsi 2048 V 5

Preordinatura: PROVATO CON L'AZIONAMENTO SIEMENS
CONNESSIONE ERM

A() B() C()

D() E() F()

G() H() I()

1=A+ 2=A- 3=R+ 13=R-
11=B+ 12=B- 7=0V 10=V+
16=V+SENSOR 15=0V SENSOR

(ENCODER
PROVATO A 5V
SEGNARE L'USCITA 0.8V)

Gradi di fasatura 0.43 =

Parametri inseriti nell'azionamento: Mod. di prova 0.48 =

poli 0.42 = V_{nom} 0.44 = I_{nom} 0.46 =

Giri_{nom} 0.45 = H_z 0.47 = $\cos\psi$ 0.43 =

NB: IN RETROAZIONE INVERTIRE LA FASE V CON LA W

Parametri scheda encoder: 3.26=dry IL MOTORE RUOTA SENSO ORARIO
VISTA LATO ENCODER. E L'ENCODER
impulsi 3.34 = Volt 3.36 = Tp.Encoder 3.38 = CONTA IN POSITIVO
(INCREMENTO)

NOTE I DATI DEL MOTORE SONO STATI INSERITI DA ALFARDO

FATTO GIRARE IN OPEN LOOP E CON RETROAZIONE I DATI SONO MEMORIZZATI SUL

PROGRAMMA CON (BAUKULLER VIZAC PAR. (PER RETROAZIONE)) E (OPEN LOOP PER AMPLIO
ARMATO
CORR ENCODER

Operatore LISA ANGELO

Data 21/09/2018

- | | | |
|----|-----------------------------------|-----------------------------------|
| | Thindans | A+ |
| 2 | VENAS | A- |
| 3 | LOBO | R+ |
| 4 | _____ | |
| 5 | _____ | |
| 6 | _____ | |
| 7 | BIANCO
GRIGIO USATO | OV |
| 8 |] BIANCO | ROSSO GROSSI |
| 9 | | NERO GROSSI |
| 10 | MARE USATO | V+ VIOLO VERDE MARRONE |
| 11 | GRIGIO | B+ |
| 12 | ROSA | B- |
| 13 | USATO | R- |
| 14 | _____ | |
| 15 | _____ | |
| 16 | BLU | V+ scolor |
| 17 | BIANCO | OV semi • 15? |

(Conversione PREPARATO
PER PRONTA
ENCODING)

BAUKUN VIBAC L'AQUILA

Input circuitry of the subsequent electronics

Dimensioning

Operational amplifier MC 34074

$Z_0 = 120 \Omega$

$R_1 = 10 \text{ k}\Omega$ and $C_1 = 100 \text{ pF}$

$R_2 = 34.8 \text{ k}\Omega$ and $C_2 = 10 \text{ pF}$

$U_B = \pm 15 \text{ V}$

U_1 approx. U_0

-3dB cutoff frequency of circuitry

approx. 450 kHz

Approx. 50 kHz and $C_1 = 1000 \text{ pF}$

and $C_2 = 82 \text{ pF}$

This variant admittedly reduces the band width of the circuit, but on the other hand improves its noise immunity.

Circuit output signals

$U_a = 3.48 \text{ V}_{PP}$ typical

Gain 3.48

Signal monitoring

A threshold sensitivity of 250 mV_{PP} is to be provided for monitoring the 1-V_{PP} incremental signals.

Incremental signals Reference-mark signal

$R_a < 100 \Omega$, typ. 24 Ω

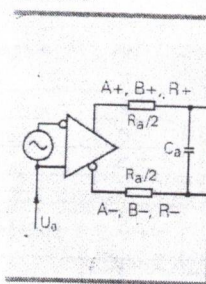
$C_a < 50 \text{ pF}$

$\Sigma I_a < 1 \text{ mA}$

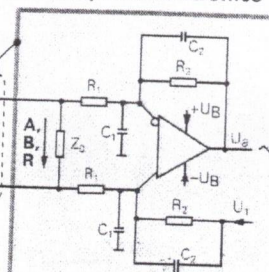
$U_0 = 2.5 \text{ V} \pm 0.5 \text{ V}$

(relative to 0 V of the power supply)

Encoder

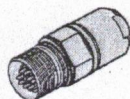


Subsequent electronics

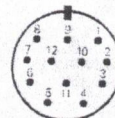
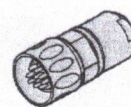


Pin layout

12-pin M23 coupling



12-pin M23 connector



	Power supply				Incremental signals						Other signals		
	12	2	10	11	5	6	8	1	3	4	7	13	1
	U_P	Sensor U_P	0 V	Sensor 0 V	A+	A-	B+	B-	R+	R-	Vacant	Vacant	Vacant
	Brown/ Green	Blue	White/ Green	White	Brown	Green	Gray	Pink	Red	Black	/	Violet	Yellow

Shield on housing; U_P = power supply voltage

Sensor: The sensor line is connected internally with the corresponding power line

Vacant pins or wires must not be used!

GLADIO
ROSA

VERA

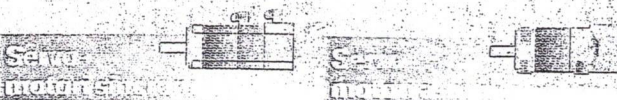
MAO
VERA

ITARE ROPO

BALCO
VERA

8
10
TERRA

Servomotori Tecnica di collegamento



Per l'allacciamento a motori con encoder ERN 1387/ERN 1381

Struttura cavo e assegnazione connettori

tipo 6FX2002-2CA31-... 0, 6FX4002-2CA31-... 0, costituito da:

lato motore

tipo connettore: 6FX2003-0CE17

cavo a metri

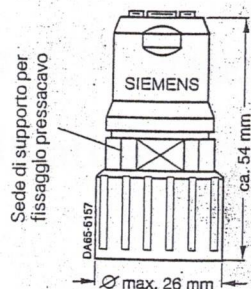
6FX2008-1BD51

6FX4008-1BD51

lato convertitore

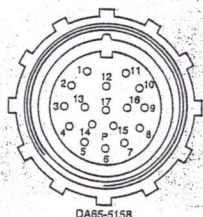
tipo connettore: 6FC9348-7HP00

disegno d'ingombro



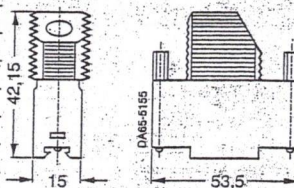
giunto con dado e contatti femmina

vista su lato colleg.

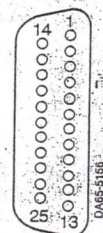


PIN	nome segnale	colore conduttori	nome segnale	PIN
1	Ua1	giallo	A	3
2	*Ua1	verde	*A	4
17		schermo interno		5
11	Ua2	nero	B	6
12	*Ua2	marrone	*B	7
17		schermo interno		8
3	Ua0	rosso	R	17
13	*Ua0	arancione	*R	18
17		schermo interno		24
5	Ua3	blu	C1)	19
6	*Ua3	grigio	*C1)	20
14	Ua4	bianco-nero	D1)	21
4	*Ua4	bianco-giallo	*D1)	22
8	+Temp	verde-nero	+Temp	13
9	-Temp	verde-rosso	-Temp	25
10	P-Encoder	marrone-rosso	P-Encoder	1
16	5 V Sense	marrone-giallo	5 V Sense	14
7	M-Encoder	marrone-blu	M-Encoder	2
15	0 V Sense	marrone-grigio	0 V Sense	16
si		schermo esterno		si
		su custodia connettore		

disegno d'ingombro



vista su lato colleg.



1) Segnali di commutazione C e D non presenti con ERN 1381.