

### Caratteristiche tecniche

### Technical features

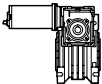
Le caratteristiche principali dei motoriduttori a corrente continua della serie ECMM sono:

The main features of ECMM DC gearmotor range are:

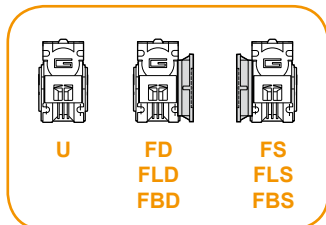
- Alimentazione in bassa tensione 12/24Vcc
- Possibilità di montaggio encoder
- Potenze motore disponibili da 100 a 800W S2
- Magneti in ferrite
- Carcassa in pressofusione di alluminio nelle grandezze 026, 030, 040, 050, 063, 075, 090 e 110. La grandezza 130 è costruita con carcassa in ghisa
- Lubrificazione permanente con olio sintetico
- Low voltage power supply 12/24Vdc
- Suitable for encoder assembly
- Motor power ratings available from 100 up to 800W S2
- Ferrite magnets
- Die cast aluminium housing on sizes 026, 030, 040, 050, 063, 075, 090 and 110. Cast iron housing on size 130
- Permanent synthetic oil long life lubrication

### Designazione

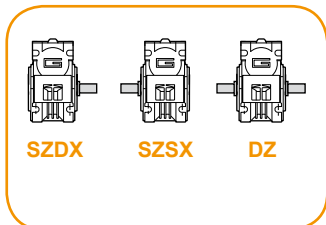
### Classification

MOTORIDUTTORE / GEARMOTOR														
ECMM	100/026/026					U	150	SZDX	BRSX	90	B3	UB1	120	VS1
Tipo Type	Grandezza Size					Versione Version	Rapporto Ratio	Albero di uscita Output shaft	Braccio di reazione Torque arm	Angolo Angle	Pos. di montaggio Mounting position	Esecuzione di montaggio Mounting execution	Versione motore Motor version	Opzioni Options
	070/026/026	100/026/026	180/026/040	250/030/040	350/030/040	U	vedi tabelle	SZDX SZSX DZ	BRDX BRSX	0° 90° 180° 270°	B3 B8 B6 B7 V5 V6	UB1 UB2 US1 US2 UV1 UV2 UC1 UC2	120 240 24E	VS1 VS2
	070/026/030	100/026/030	180/026/050	250/030/050	350/030/050	FD								
	070/026/040	100/026/040	180/030/040	250/030/063	350/030/063	FS	see tables							
	070/026/050	100/026/050	180/030/050	250/040/075	350/040/075	FLD								
	070/030/040	100/030/040	180/030/063	250/040/090	350/040/090	FLS								
	070/030/050	100/030/050	180/040/075	250/050/110	350/050/110	FBD								
	070/030/063	100/030/063	180/040/090		350/063/130	FBS								
	070/040/075	100/040/075	180/050/110		600/040/075									
	070/040/090	100/040/090			600/040/090									
					600/050/110									
				600/063/130										

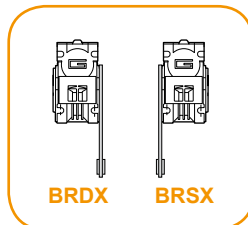
Versione Riduttore  
Gearbox Version



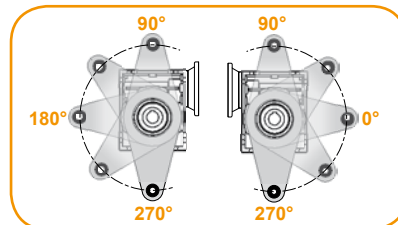
Albero di uscita  
Output shaft



Braccio di reazione  
Torque arm



Angolo  
Angle



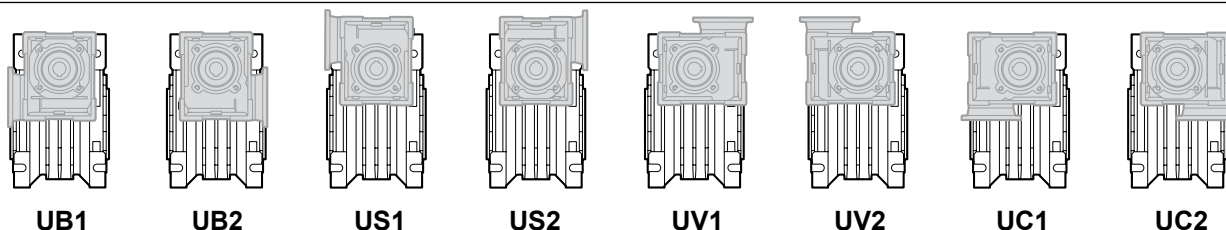
### Simbologia

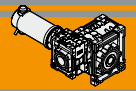
### Symbols

$n_1$ [min <sup>-1</sup> ]	Velocità in ingresso / Input speed	$M_2$ [Nm]	Coppia in uscita in funzione di $P_1$ / Output torque referred to $P_1$
$n_2$ [min <sup>-1</sup> ]	Velocità in uscita / Output speed	sf	Fattore di servizio / Service factor
i	Rapporto di riduzione / Ratio	$R_2$ [N]	Carico radiale ammissibile in uscita / Permitted output radial load
$P_1$ [kW]	Potenza in entrata / Input power	$A_2$ [N]	Carico assiale ammissibile in uscita / Permitted output axial load

### Esecuzioni di montaggio

### Mounting executions





Combinazioni rapporti

Combination ratio

CMM 026/026 - CMM 026/030 - CMM 026/040 - CMM 026/050												
i (i <sub>1</sub> x i <sub>2</sub> )												
	150	225	300	450	600	900	1200	1500	1800	2400	3000	3600
i <sub>1</sub>	10	15	10	15	20	30	40	50	60	60	60	60
i <sub>2</sub>	15	15	30	30	30	30	30	30	30	40	50	60

CMM 030/040 - CMM 030/050 - CMM 030/063 - CMM 040/075 - CMM 040/090 - CMM 050/110 - CMM 063/130																
i (i <sub>1</sub> x i <sub>2</sub> )																
	75	100	150	200	250	300	400	500	600	750	900	1200	1500	1800	2400	3000
i <sub>1</sub>	7.5	10	10	10	10	10	10	10	20	25	30	40	50	60	60	60
i <sub>2</sub>	10	10	15	20	25	30	40	50	30	30	30	30	30	30	40	50

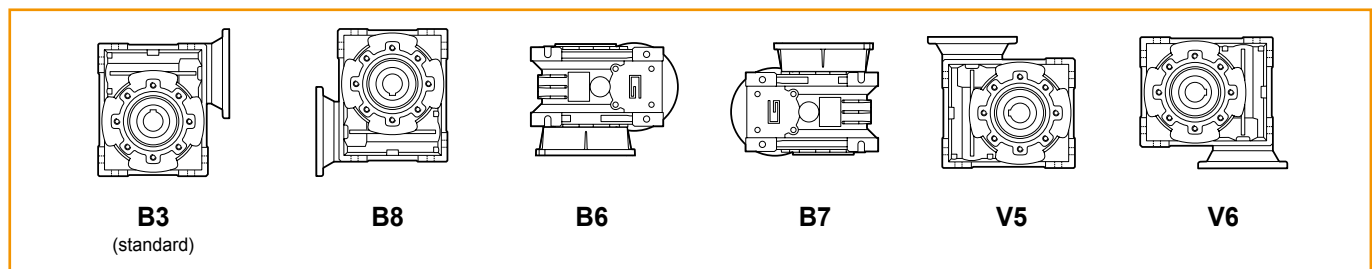
Lubrificazione

Lubrication

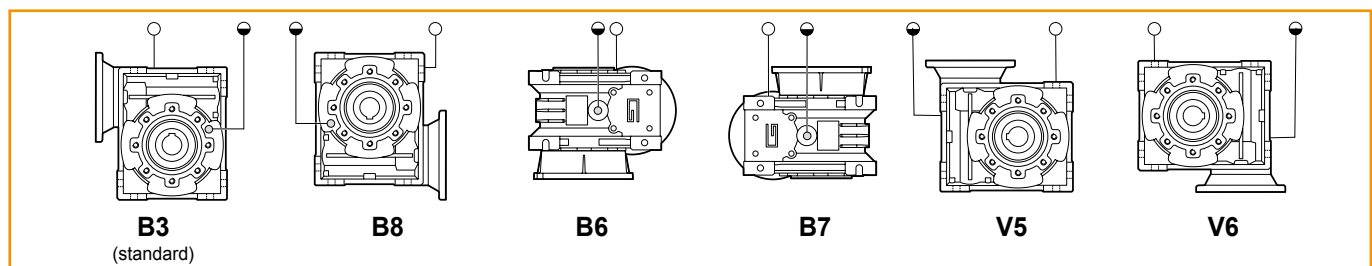
	CMM											
	026/026	026/030	026/040	026/050	030/040	030/050	030/063	040/075	040/090	050/110	063/130	
①	026			030			040		050		063	
	Lubrificazione a vita / Life lubricated											
②	026	030	040	050	040	050	063	075	090	110	130	
	Lubrificazione a vita / Life lubricated											

Posizioni di montaggio / Mounting positions

CM 026-030-040-050-063-075-090-110



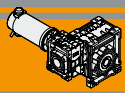
CM 130



○ Sfiato e tappo di riempimento / Breather and filling plug  
● Livello olio / Oil level plug

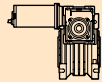
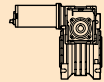
	Quantità di olio (litri) / Oil quantity (litres)					
	B3	B8	B6	B7	V5	V6
CM026				0.02		
CM030				0.03		
CM040				0.07		
CM050				0.1		
CM063				0.25		
CM075				0.4		
CM090				0.7		
CM110				1.1		
CM130	4.5	3.3	3.5	3.5	4.5	3.3

Lubrificati a vita  
Life lubrication

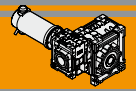


### Dati tecnici per servizio S2

### Technical data for S2 duty

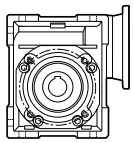
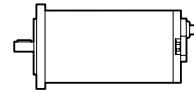
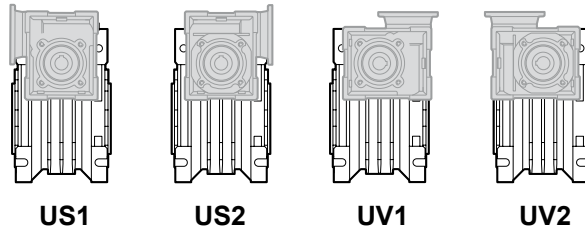
$P_1$ [W]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i		Versione motore Motor version	$P_1$ [W]	$n_2$ [min <sup>-1</sup> ]	$M_2$ [Nm]	sf	i		Versione motore Motor version		
<b>250</b>							<b>250</b>								
(3000 min <sup>-1</sup> )	20.0	70	1.2	150	ECMM 180/026/040	120/240	(3000 min <sup>-1</sup> )	12.0	115	3.3	250	ECMM 180/040/075	120/240/24E		
	13.3	103	0.8	225				10.0	132	3.9	300				
	10.0	116	0.8	300				7.5	159	2.7	400				
	20.0	73	2.2	150	ECMM 180/026/050	120/240		6.0	184	2.0	500				
	13.3	108	1.5	225				5.0	251	2.0	600				
	10.0	118	1.4	300				4.0	302	1.7	750				
	6.7	173	0.9	450				3.3	349	1.5	900				
	5.0	223	0.7	600				2.5	421	1.0	1200				
	40.0	40	2.1	75			ECMM 180/030/040	120/240/24E		2.0	522	1.0	1500		
	30.0	52	1.6	100						1.7	599	0.9	1800		
	20.0	71	1.2	150			1.3	432	1.0	2400					
	15.0	92	0.8	200			1.0	378	1.0	3000					
	12.0	67	1.0	250			5.0	263	3.3	600	ECMM 180/040/090	120/240/24E			
	10.0	90	1.0	300			4.0	317	2.8	750					
	7.5	74	1.0	400			3.3	366	2.4	900					
	6.0	68	1.0	500			2.5	451	1.7	1200					
	5.0	90	1.0	600			2.0	546	1.6	1500					
	4.0	90	1.0	750			1.7	627	1.4	1800					
	3.3	90	1.0	900			1.3	773	1.0	2400					
	40.0	40	3.9	75	ECMM 180/030/050	120/240/24E		1.0	903	0.7	3000				
	30.0	52	3.0	100			3.3	376	3.9	900	ECMM 180/050/110	24E			
	20.0	74	2.2	150			2.5	487	2.7	1200		120/240/24E			
	15.0	94	1.5	200			2.0	571	2.6	1500	120/240/24E				
	12.0	110	1.1	250			1.7	656	2.3	1800	120/240/24E				
	10.0	120	1.4	300			1.3	849	1.6	2400	120/240/24E				
	7.5	146	0.9	400			1.0	996	1.2	3000	120/240/24E				
	6.0	165	0.8	500											
	5.0	226	0.7	600											
	4.0	162	1.0	750											
	3.3	162	1.0	900											
	2.5	135	1.0	1200											
	2.0	162	1.0	1500											
	1.7	162	1.0	1800											
	15.0	92	2.8	200	ECMM 180/030/063	120/240/24E	<b>350</b>								
	12.0	108	2.1	250			(3000 min <sup>-1</sup> )	40.0	55	1.5	75	ECMM 250/030/040	120/240		
	10.0	124	2.5	300				30.0	72	1.2	100				
	7.5	149	1.7	400				20.0	100	0.9	150				
	6.0	172	1.3	500				15.0	74	1.0	200				
	5.0	233	1.3	600				12.0	67	1.0	250				
	4.0	281	1.1	750				10.0	90	1.0	300				
	3.3	320	1.0	900				7.5	74	1.0	400				
	2.5	384	0.7	1200				6.0	68	1.0	500				
	2.0	468	0.7	1500				5.0	90	1.0	600				
	1.7	310	1.0	1800				4.0	90	1.0	750				
	1.3	260	1.0	2400				3.3	90	1.0	900				
	1.0	232	1.0	3000				2.5	74	1.0	1200				
							2.0	90	1.0	1500					
							40.0	56	2.8	75	ECMM 250/030/050	120/240			
							30.0	73	2.1	100					
							20.0	104	1.5	150					
							15.0	131	1.0	200					
							12.0	154	0.8	250					
							10.0	168	1.0	300					

**Nota:** Verificare sempre che la coppia M2 utilizzata non ecceda il valore indicato nelle caselle in grigio  
**Note:** Please check that the output torque M2 does not exceed the value into the grey areas



Motori applicabili

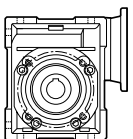
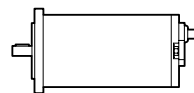
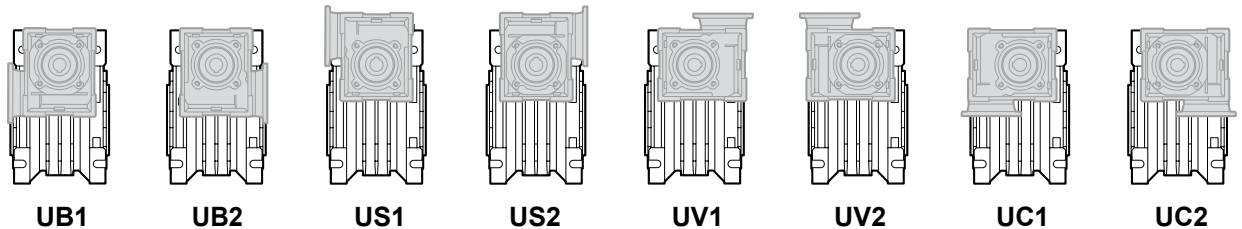
IEC Motor adapters



		EC			
		070.120 070.240	100.120 100.240	100.24E	180.120 180.240
<b>CMM</b>	<b>026/026</b>	150 - 3600	150 - 3600	150 - 3600	150 - 3600

150 - 3600

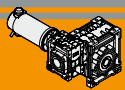
Rapporti di riduzione i  
Ratio i



		EC							
		070.120 070.240	100.120 100.240	100.24E	180.120 180.240	180.24E	250.120 250.240	350.120 350.240	600.120 600.240
<b>CMM</b>	<b>026/030</b>	150 - 3600	150 - 3600	150 - 3600	150 - 3600				
	<b>026/040</b>	150 - 3600	150 - 3600	150 - 3600	150 - 3600				
	<b>026/050</b>	150 - 3600	150 - 3600	150 - 3600	150 - 3600				
	<b>030/040</b>	75 - 3000	75 - 3000	75 - 3000	75 - 3000	75 - 1500	75 - 1500	75 - 1500	
	<b>030/050</b>	75 - 3000	75 - 3000	75 - 3000	75 - 3000	75 - 1500	75 - 1500	75 - 1500	
	<b>030/063</b>	75 - 3000	75 - 3000	75 - 3000	75 - 3000	75 - 1500	100 - 1500	75 - 1500	
	<b>040/075</b>	75 - 3000	75 - 3000	75 - 3000	75 - 3000	75 - 3000	200 - 3000	75 - 3000	75 - 1200
	<b>040/090</b>	75 - 3000	75 - 3000	75 - 3000	75 - 3000	75 - 3000	250 - 3000	75 - 3000	75 - 1200
	<b>050/110</b>				1200 - 3000	75 - 3000	500 - 3000	75 - 3000	75 - 3000
	<b>063/130</b>							75 - 3000	75 - 3000

150 - 3600

Rapporti di riduzione i  
Ratio i

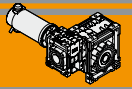


**Dimensioni**

**Dimensions**

CMM..U - CMM..F - CMM..FB - CMM..FL																	
	A	C	D <sub>H8</sub>	E	F	G	G1	H	H1	I	I1	K	L	M	N <sub>H8</sub>	N1	N2
<b>030/040</b>	70	100	18	121.5	43	55	78	50	40	40	30	60	71	75	60	36.5	29
<b>030/050</b>	80	120	25	144	49	55	92	60	40	50	30	70	85	85	70	43.5	29
<b>030/063</b>	100	144	25	174	67	55	112	72	40	63	30	85	104	95	80	53	29
<b>040/075</b>	120	172	28	205	72	70	120	86	50	75	40	90	112	115	95	57	36.5
<b>040/090</b>	140	208	35	238	74	70	140	103	50	90	40	100	130	130	110	67	36.5
<b>050/110</b>	170	252.5	42	295	—	80	155	127.5	60	110	50	115	144	165	130	74	43.5

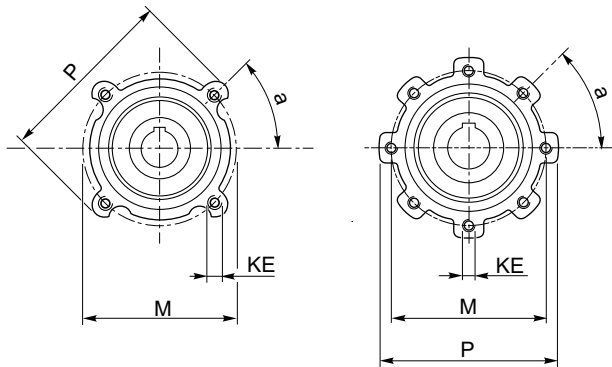
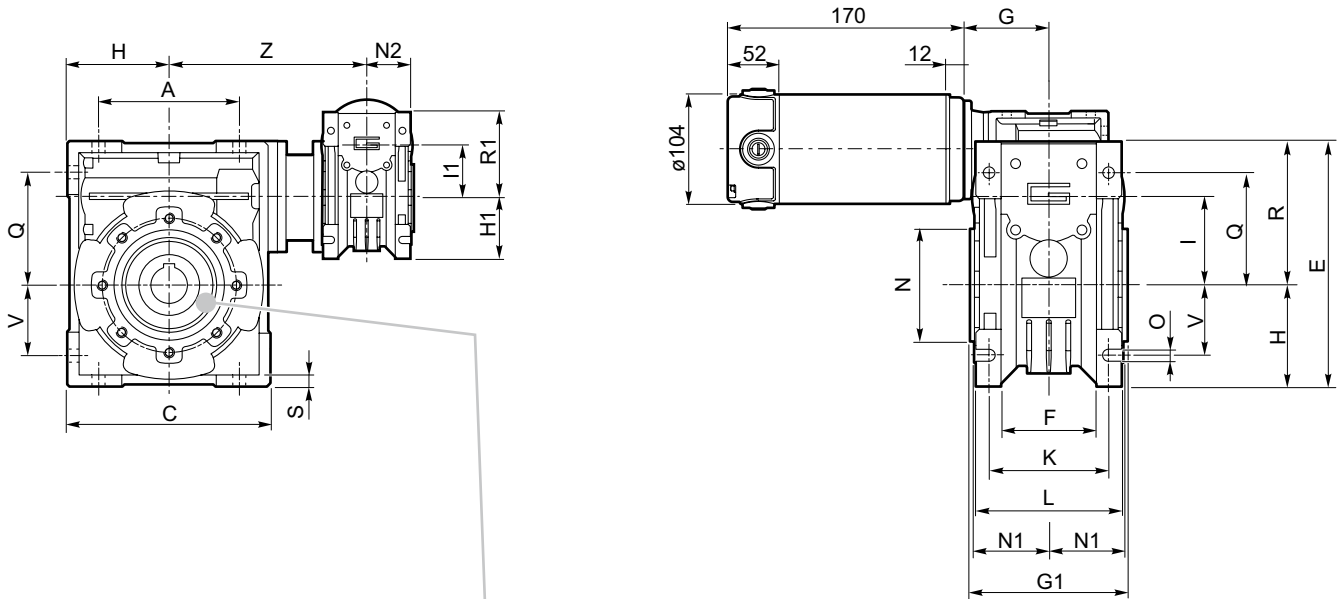
CMM..U - CMM..F - CMM..FB - CMM..FL															
	O	P	Q	R	R1	S	T	V	Z	KE	a	b	t	Kg	
<b>030/040</b>	6.5	87	55	71.5	57	6.5	26	35	122	M6x8(n.4)	45°	6	20.8	9.2	
<b>030/050</b>	8.5	98	64	84	57	7	30	40	132	M8x10(n.4)	45°	8	28.3	10.3	
<b>030/063</b>	8.5	110	80	102	57	8	36	50	145	M8x14(n.8)	45°	8	28.3	12.3	
<b>040/075</b>	11	140	93	119	71.5	10	40	60	165	M8x14(n.8)	45°	8	31.3	17.3	
<b>040/090</b>	13	160	102	135	71.5	11	45	70	182	M10x18(n.8)	45°	10	38.3	20.9	
<b>050/110</b>	14	200	125	167.5	84	14	50	85	225	M10x18(n.8)	45°	12	45.3	35.5	



Dimensioni

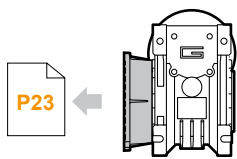
Dimensions

ECMM250/...U

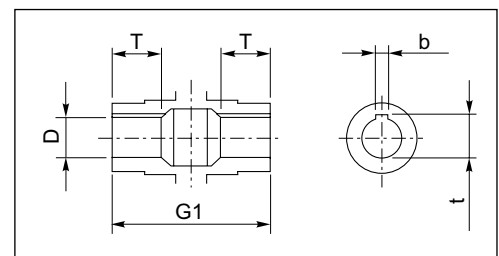


..030/040 ..030/050

..030/063 ..040/075  
..040/090 ..050/110



ECMM250/... F  
ECMM250/... FL  
ECMM250/... FB



Albero lento cavo / Hollow output shaft