

isel-AC-Synchronmotor MY 091
isel-AC-Synchronmotor MY 092
isel-AC-Synchronmotor MY 093
isel-AC-Synchronmotor MY 094

Art.-Nr. 475910 130x
 Art.-Nr. 475920 130x
 Art.-Nr. 475930 130x
 Art.-Nr. 475940 130x

iselautomation
 Von der Komponente zum System

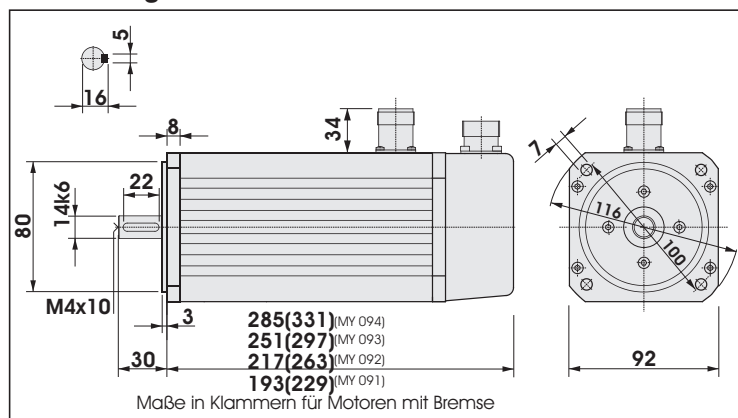
x=0 Motor ohne Bremse
 x=1 Motor mit Bremse

Merkmale der isel-AC-Synchronmotoren

Bürstenlose, hochdynamische Positioniermotoren
 Kompakte Bauform durch Selten-Erden-Magnete
 Kleines Trägheitsmoment durch optimierte Lüfterkonstruktion
 Gute Gleichlaufelastenschaften durch 6-poligen Aufbau
 Hohe Belastbarkeit (Impulsmoment bis zum 5-fachen Nennmoment)
 Integrierter Temperaturschutz durch PTC-Thermistor
 Schutzart IP 65 (Wellendurchführung IP 64)
 Hochauflösender Sin/Cos-Geber als Messsystem
 Anschluss über zwei Rundsteckverbinder
 Optionen: Integrierte Haltebremse
 Resolver

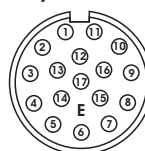


Abmessungen



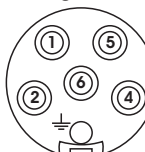
Anschlussbelegung

Messsystemanschluß



Pin	Signal	Pin	Signal
1	A+	10	+5 V
2	A-	11	B+
3	R+	12	B-
4	D-	13	R-
5	C+	14	D+
6	C-	15	nicht belegt
7	0V	16	nicht belegt
8	Temp. +	17	nicht belegt
9	Temp. -		

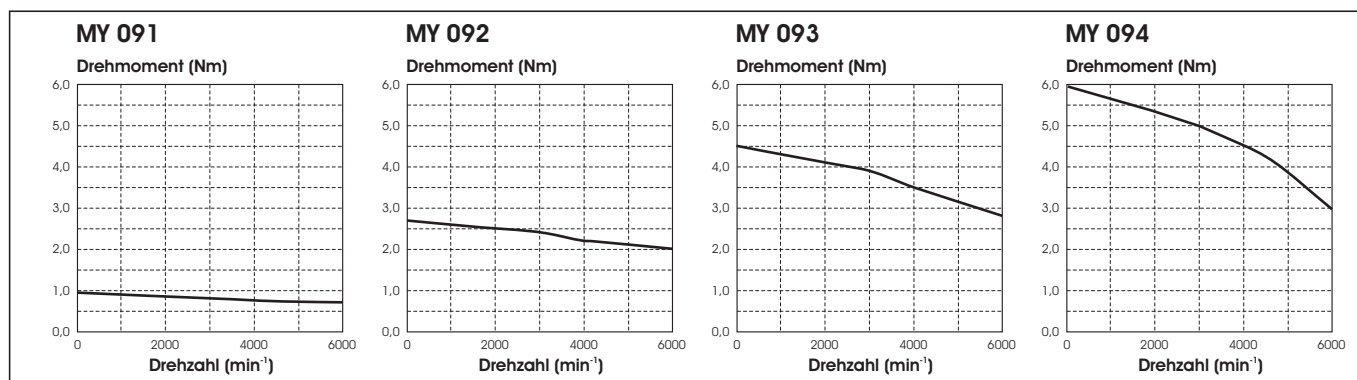
Leistungsanschluß



Pin	Signal	Pin	Signal
1	U1	4	Bremse +*
2	V1	5	Bremse -*
PE	PE	6	W1

*optional

Drehmomentkurven



Technische Daten

Bezeichnung	Artikel-Nr.*	Still-stands-dreh-moment Nm	Still-stands-dauer-strom A	Bemessungsdaten								Maximalwerte			Mechanik	
				Dreh-moment Nm	Nenn-spannung V	Strom A	Nenn-drehzahl min ⁻¹	Leistung W	Span-nungs-kon-stante V/1000	Wick-lungs-wider-stand W	Wick-lungs-induk-tivität mH	Dreh-moment Nm	Strom A	Drehzahl min ⁻¹	Läufer-trägheits-moment kgcm ²	Masse kg
MY 091	475910 1300	0,95	2,0	0,75	490...620	1,1	4.000	310	50,2	39,4	57,6	4,3	7,7	6000	1,2	2,7
MY 092	475920 1300	2,70	4,3	2,20		2,5		920	59	6,9	19,3	12,2	17,6		2,7	3,9
MY 093	475930 1300	4,50	6,7	3,50		3,8		1470	64,2	3,7	12,2	20,3	26,8		4,2	5,2
MY 094	475940 1300	6,00	9,1	4,50		5,5		1880	61,3	2,1	7,8	27,0	38,9		5,4	6,6

* Bei montierter Bremse ändert sich die letzte Zahl der Artikel-Nr. auf 1

isel AC Synchronous Motor MY 091 Art. No. 475910 130x
isel AC Synchronous Motor MY 092 Art. No. 475920 130x
isel AC Synchronous Motor MY 093 Art. No. 475930 130x
isel AC Synchronous Motor MY 094 Art. No. 475940 130x

iselautomation
 From Components to Systems.

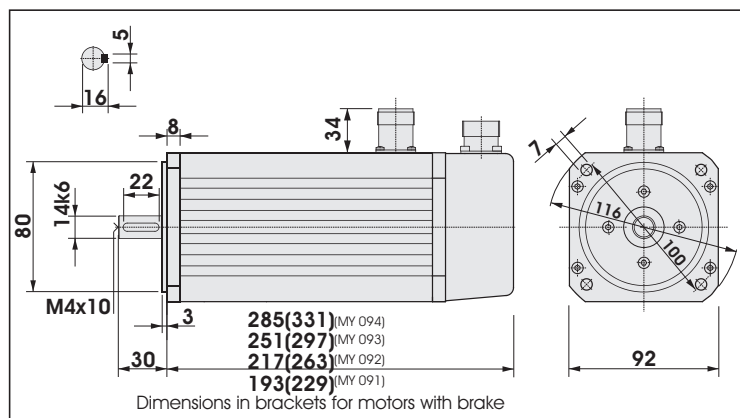
x=0 Motor without brake
 x=1 Motor with brake

Features of the isel AC synchronous motors

Brushless, highly dynamic positioning motors
 Compact design thanks to the use of rare-earth magnets
 Low moment of inertia thanks to optimised rotor design
 Good smooth running properties thanks to 6-pole design
 High overload capability (pulse torque up to 5 times the rated torque)
 Integrated temperature protection thanks to PTC thermistor
 Degree of protection IP 65 (rotary transmission leadthrough IP 64)
 High-resolution sin/cos encoder as a measuring system
 Connection via two circular connectors
 Options: Integrated holding brake
 Resolver

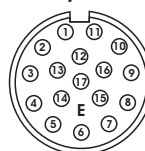


Dimensions



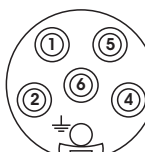
Connector pin assignment

Meas. system conn.



Pin	Signal	Pin	Signal
1	A+	10	+5 V
2	A-	11	B+
3	R+	12	B-
4	D-	13	R-
5	C+	14	D+
6	C-	15	not connected
7	0 V	16	not connected
8	Temp. +	17	not connected
9	Temp. -		

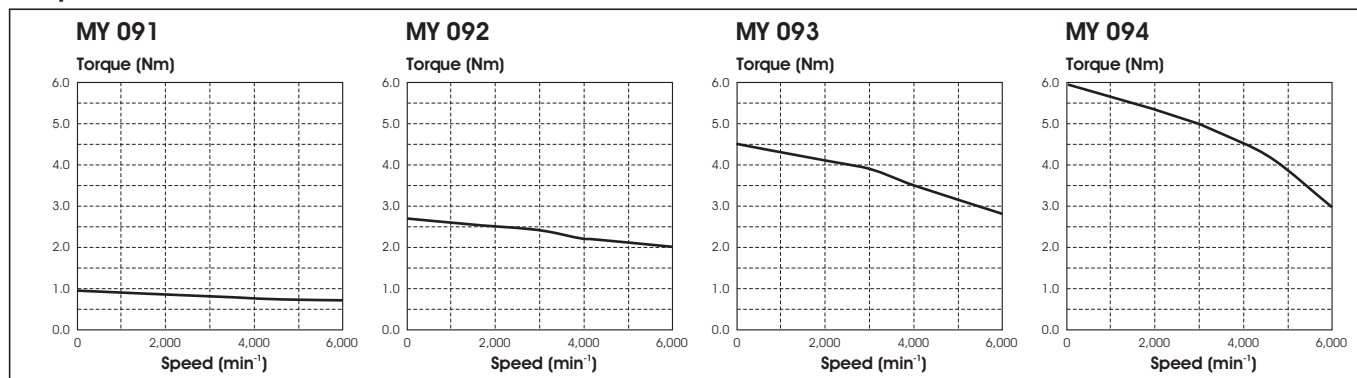
Power connection



Pin	Signal	Pin	Signal
1	U1	4	Brake +*
2	V1	5	Brake -*
PE	PE	6	W1

*optional

Torque characteristics



Technical data

Designation	Article No.*	Static torque Nm	Stand- still con- tinuous current A	Rating								Maximum values			Mechanics	
				Torque Nm	Rated voltage V	Current A	Rated speed min ⁻¹	Power W	Voltage constant V/1000	Winding resistance W	Winding inductivity mH	Torque Nm	Current A	Speed min ⁻¹	Rotor moment of inertia kgcm ²	Weight kg
MY 091	475910 1300	0.95	2.0	0.75	490...620	1.1	4,000	310	50.2	39.4	57.6	4.3	7.7	6,000	1.2	2.7
MY 092	475920 1300	2.70	4.3	2.20		2.5		920	59	6.9	19.3	12.2	17.6		2.7	3.9
MY 093	475930 1300	4.50	6.7	3.50		3.8		1470	64.2	3.7	12.2	20.3	26.8		4.2	5.2
MY 094	475940 1300	6.00	9.1	4.50		5.5		1880	61.3	2.1	7.8	27.0	38.9		5.4	6.6

* With the brake installed, the last number of the article number will change to 1.

* With the brake installed, the last number of the article number will change to 1.