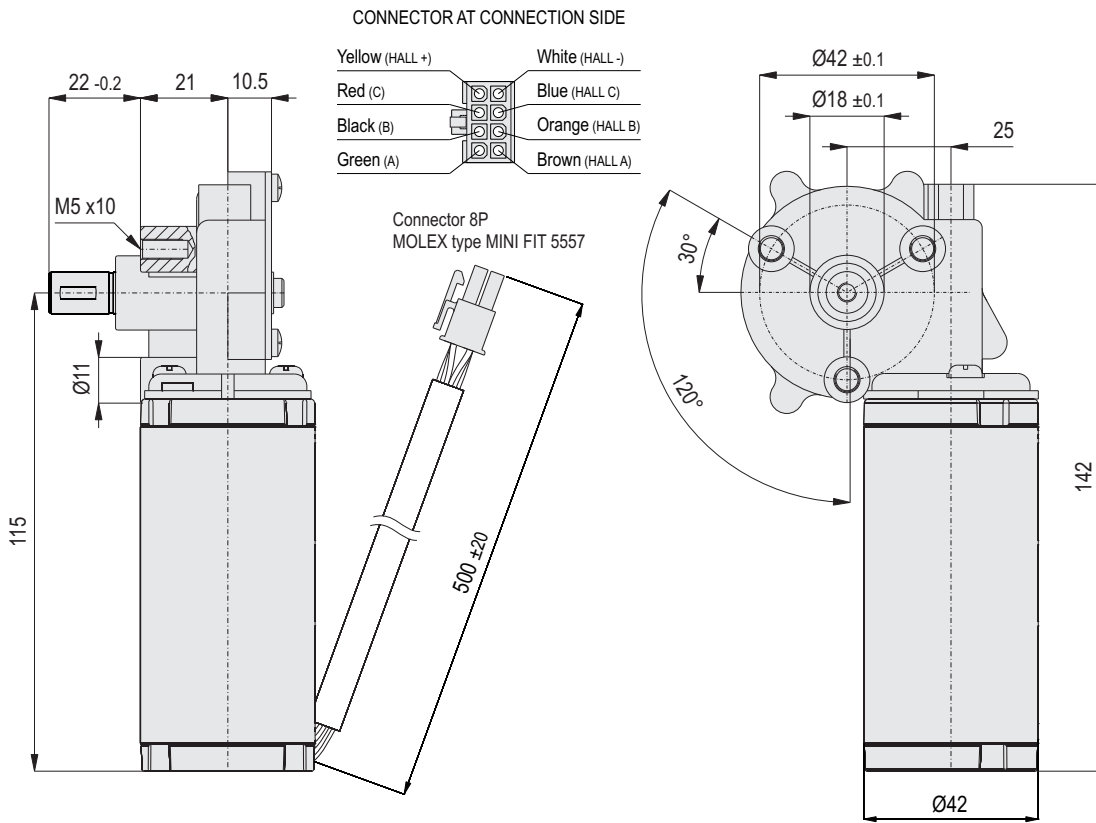


# 574.505 DCGM 42 T42 BL

BRUSHLESS DC-MOTOR WITH WORM GEAR



Ø 42 mm



24 V/DC



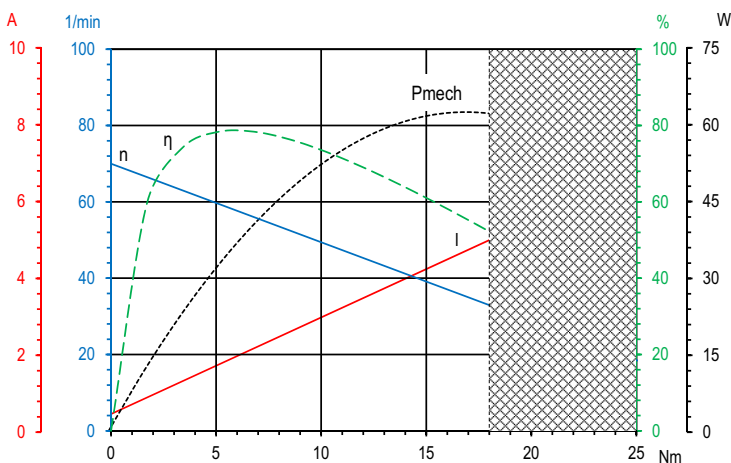
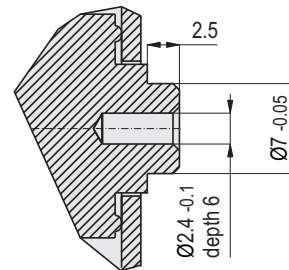
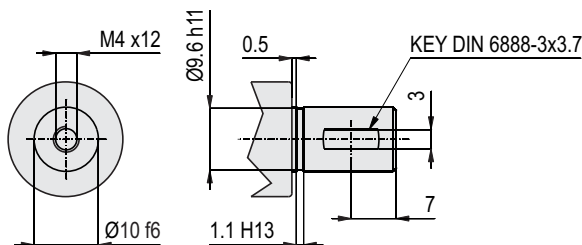
70 min<sup>-1</sup>



18 Nm



integriert /  
integrated



Diese Angaben sind Mittelwerte gemessen im kalten Zustand des Motors. Abweichungen von ±10% sind möglich. Technische Änderungen vorbehalten.  
These data are measured average values at cold engine. Deviations from ±10% are possible. Subject to change without notice.

## Technische Daten / Technical data

Nennspannung / Nominal voltage	<b>24 V/DC</b>
Leerlaufdrehzahl / No-load speed	<b>70 min<sup>-1</sup></b>
Nenn Drehmoment / Nom. torque	<b>5 Nm</b>
Maximalmoment / Max. torque	<b>18 Nm</b>
Hall-Sensor / Hall-sensor	<b>5 - 24 V/DC</b>
Zahnradwerkstoff / Gear material	<b>Kunststoff / Plastic</b>
Übersetzung / Gear ratio	<b>62:1</b>
Schutzart / Protection class	<b>IP 30</b>
Gewicht / Weight	<b>0,9 kg</b>

Neuheiten 2014

## Allgemeines

Alle Angaben zu DC-Motoren und DC-Linearantrieben sind Mittelwerte gemessen im kalten Zustand. Abweichungen von  $\pm 10\%$  sind möglich. Technische Änderungen vorbehalten.

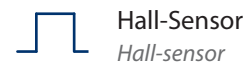
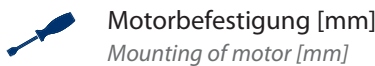
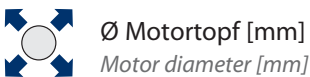
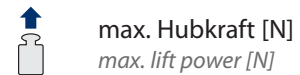
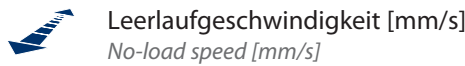
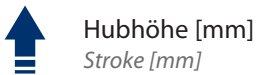
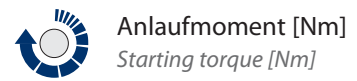
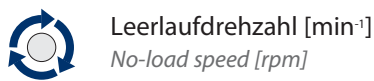
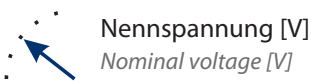
Aktuelle Informationen finden Sie auf unserer Internetseite unter [www.seefrid.com](http://www.seefrid.com).

## General

all data to DC motors and DC linear actuators are measured average values at cold engine. Deviations from  $\pm 10\%$  are possible. Subject to change without notice.

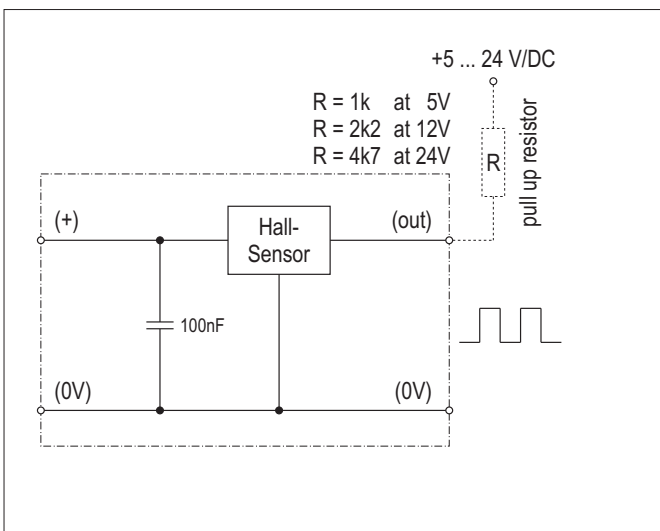
Actually information you will find on our website [www.seefrid.com](http://www.seefrid.com).

## Symbole / Symbols

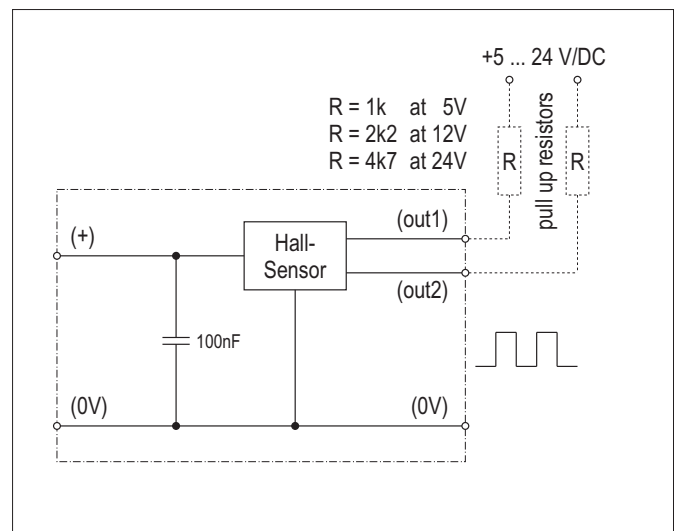


## Allgemeines Hall-Sensor Anschlussschema / General hall-sensor connection diagram

- **Anschlussschema mit Einkanal-Hall-Sensor**  
Connection diagram with a one channel hall-sensor



- **Anschlussschema mit Zweikanal-Hall-Sensor**  
Connection diagram with a two channel hall-sensor



**Umrechnungen** (für die Praxis gerundete Werte) / *Conversion (rounded values)*

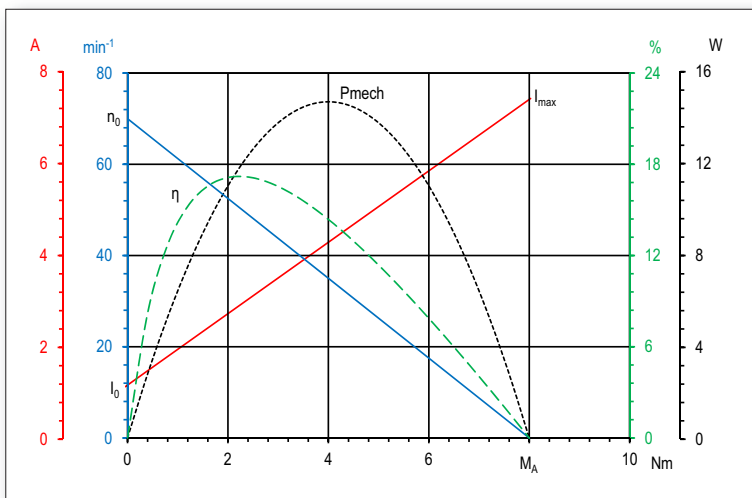
• **Kräfte** / *Forces*

1 N = 0,1 kg = 100 g                      1 kg = 10 N = 10.000 mN

• **Drehmomente** / *Torques*

1 Nm = 10.000 g/cm = 10 kg/cm                      1 kg/cm = 0,1 Nm = 10 Ncm  
 1 Ncm = 100 g/cm = 0,1 kg/cm                      1 g/cm = 1·10<sup>-4</sup> Nm = 1·10<sup>-2</sup> Ncm

**Kennlinie** / *Diagram*



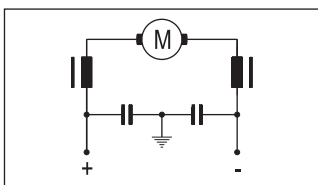
**Legende** / *Description*

- $n_0$  = Leerlaufdrehzahl / *No load speed* [min<sup>-1</sup>]
- $\eta$  = Wirkungsgrad / *Efficiency* [%]
- $P_{mech}$  = mech. Leistung / *Mech. power* [W]
- $I_0$  = Leerlaufstrom / *No load current* [A]
- $I_{max}$  = Maximalstrom / *Max. current* [A]
- $M$  = Drehmoment / *Torque* [Nm]
- $M_A$  = Anlaufmoment / *Max. torque* [Nm]

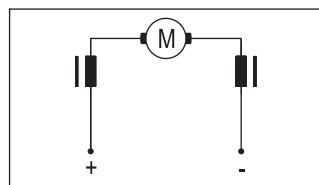
**EMV-Entstörung** / *EMC filter*

Ein Teil unserer DC-Motoren und DC-Linearantriebe sind mit Entstörkomponenten ausgestattet. Hierbei handelt es sich ausschließlich um eine Grundentstörung. Die tatsächlich notwendige Entstörung ist anwendungsabhängig zu ermitteln.

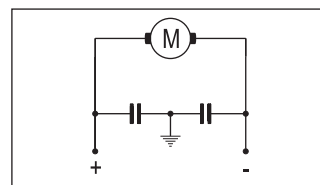
*Some of our DC motors and DC linear actuators have built-in EMC filter components. This is only a basic interference suppression. The really needed interference suppression must be determined in addition to the complete machine.*



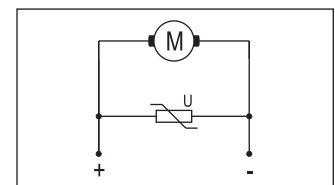
Kapazitive und induktive EMV-Entstörung. *EMC suppression with capacitor and choke.*



Induktive EMV-Entstörung. *EMC suppression with choke.*



Kapazitive EMV-Entstörung. *EMC suppression with capacitor.*



EMV-Entstörung mit einem Varistor. *EMC suppression with a varistor.*

Beispiel: / *Example:*

1,0 nF  
4,7 μH

Beispiel: / *Example:*

- nF  
4,7 μH

Beispiel: / *Example:*

1,0 nF  
- μH

Beispiel: / *Example:*

Varistor