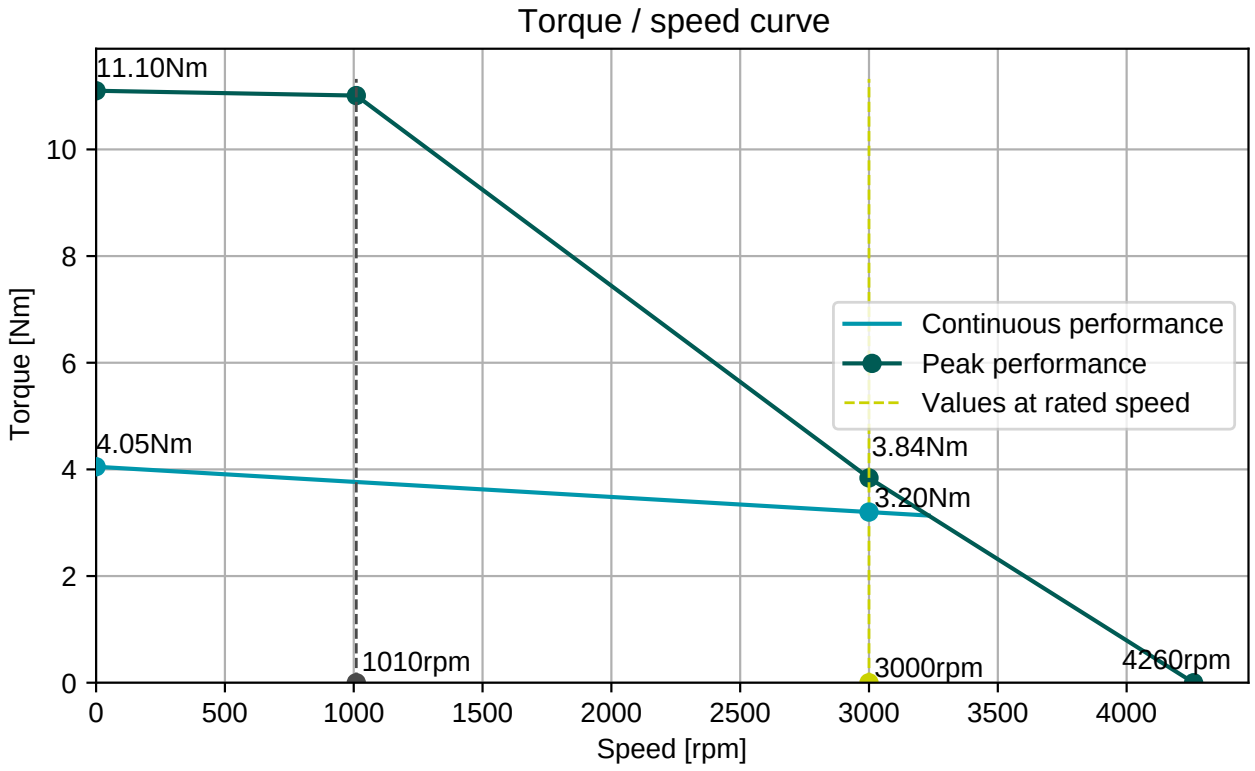
Engineering data (WIN 1339)		
DC bus voltage	48	V DC
Nominal AC voltage	33	V AC (rms)
Rated voltage	31	V AC (rms)
Rated power	1.0	kW
Rated speed	3000	rpm
Rated torque	3.20	Nm
Rated current	13.47	A (rms)
Peak torque	11.1	Nm
Peak current	65.09	A (rms)
Stall torque	4.05	Nm
Stall current	15.4	A (rms)
No load speed	4260	rpm
EMF constant ±10%	7.96	V AC (rms) / 1000rpm
Theoretical torque constant ±10%	0.263	Nm / A (rms)
Torque constant ±10% @ rated load	0.238	Nm / A (rms)
Number of poles	10	
Electrical time constant	6.00	ms
Winding terminal resistance	0.1	Ω
Rotary field terminal inductance	0.6	mH

Customs info	
HS Code	85015220

Mechanical data (setting 5)		
Max mechanical speed	9000	rpm
Mech. time constant	1.70	ms
Thermal time constant	29	min
Rotor inertia	1.7	kgcm²
Protection	IP64	
Color	RAL 9005	
Cooling	Convection	
Motor-only mass	5.15	kg

Sensors	
Temperature	PT1000 {PT1000}
Feedback	2-pole resolver (ER5Kd411, TS2620N21E11, RE-15-1-A15)



Connector 1 (22)	
white	R1
brown	R2
grey	S1
green	S2
pink	S3
yellow	S4
red	Therm+
blue	Therm-

TGH4-0370-30-48/T5KX – power connection

Terminal description:

1 – Winding beginning

2 – Winding end (with shrink tube)

System 1:

U1 – white, **U2** – white with shrink tube

V1 – red, **V2 –** red with shrink tube

W1 – light blue, **W2 –** light blue with shrink tube

System 2:

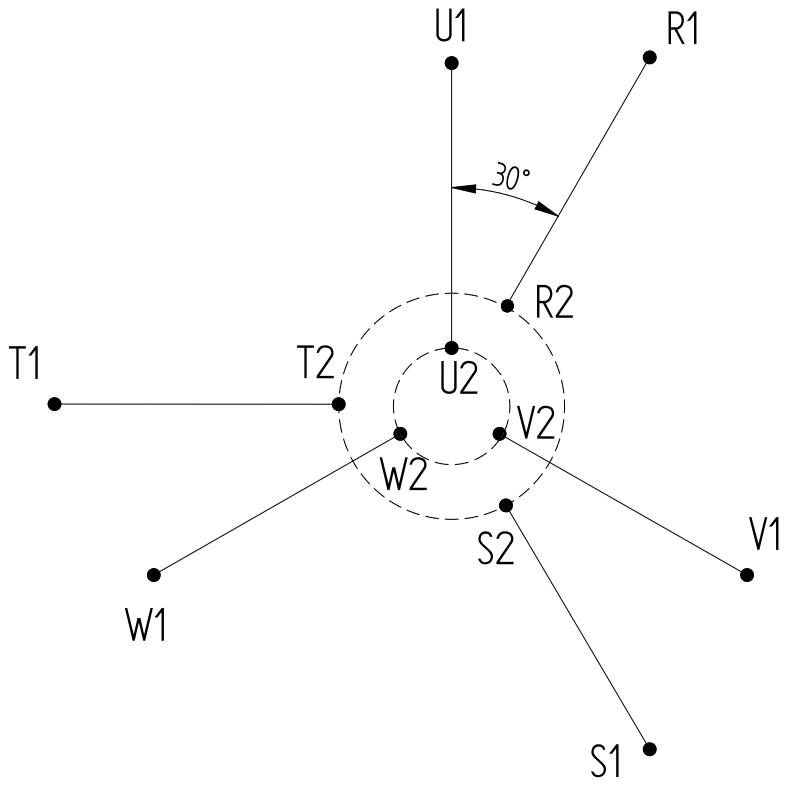
R1 – black, **R2 –** black with shrink tube

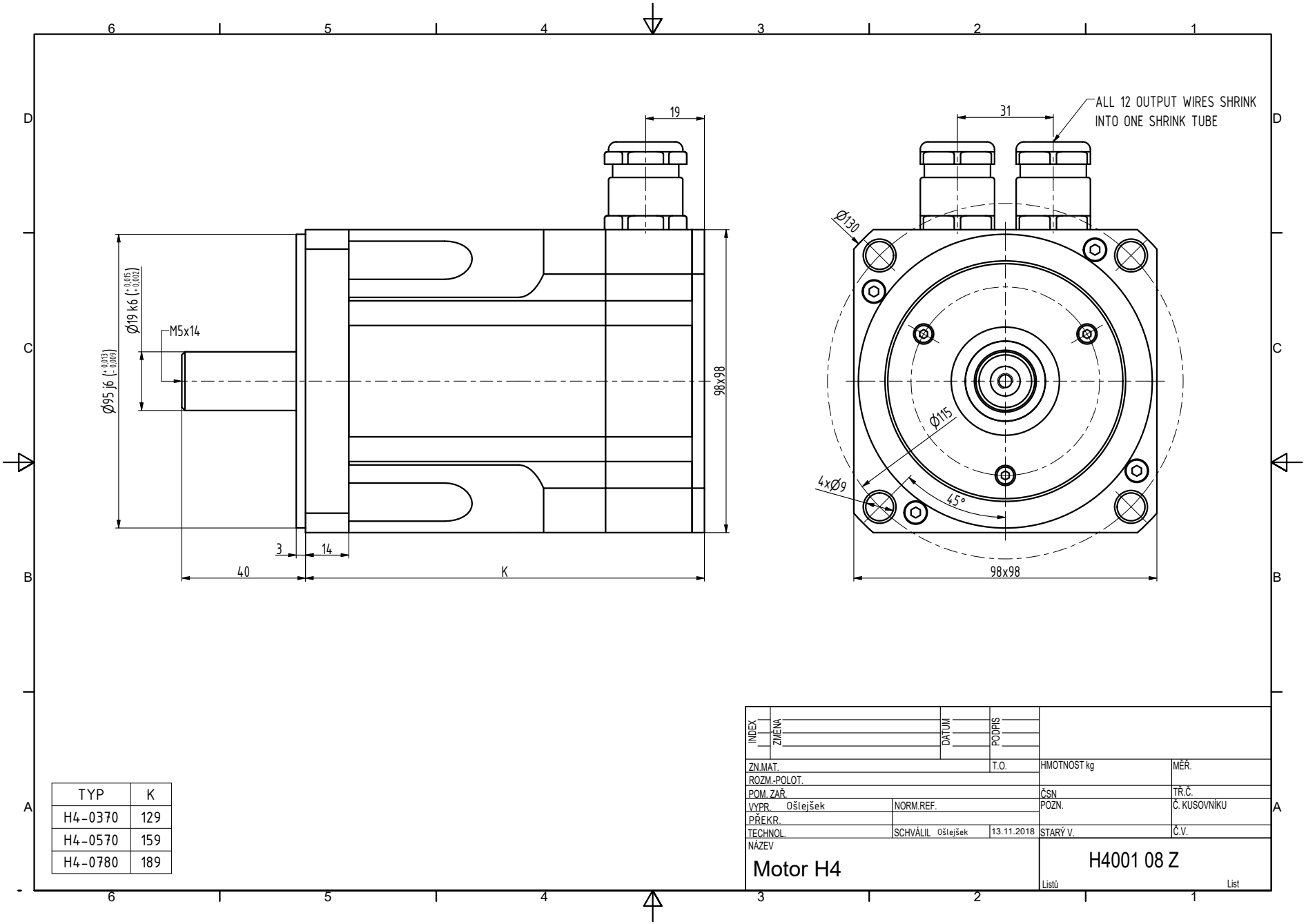
S1 – brown, **S2 –** brown with shrink tube

T1 – dark blue, **T2 –** dark blue with tube

System U,V,W and R,S,T system have right phase sequence.
System R,S,T is delayed by 30° compared to the U,V,W system.

The resolver setting was done in U,V,W system.





TYP	K
H4-0370	129
H4-0570	159
H4-0780	189

INDEX	ZMĚNA	DATUM	PODPIS		
ZN.MAT.			T.O.	HMOTNOST kg	MĚŘ.
ROZM.-POLOT.					
POM. ZAŘ.				ČSN	TŘ.Č.
VYPR. Ošlejšek		NORM.REF.		POZN.	Č. KUSOVNÍKU
PŘEKR.					
TECHNOL.		SCHVÁLIL Ošlejšek	13.11.2018	STARÝ V.	Č.V.

NÁZEV
Motor H4

H4001 08 Z

Listů List