

# Sanyo Denki

# 103-8932-6451

## 42 frame motor obsolescence



### 103-8932-6451

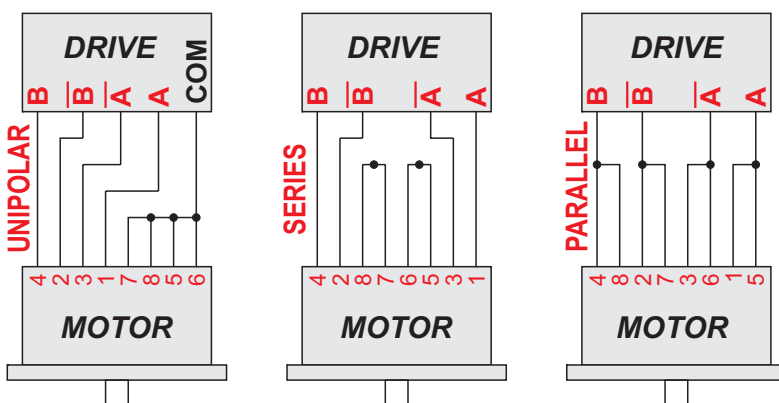
The 103-8932-6451 motor has been manufactured by Sanyo Denki for nearly 40 years and has served industry well. Sanyo Denki Japan has discontinued manufacturing this motor and it can no longer be supplied.

### 103-H89222-6541

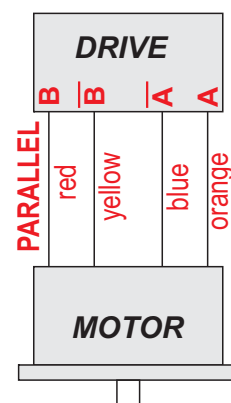
The nearest match is the high performance motor 103-H89222-6541. This motor has higher torque and there are other differences. It is not a direct replacement for the 103-8932-6451 and it won't be suitable in some applications. Please check the features below. \* = bipolar parallel connection

FEATURE	CHECK	103-8932-6451 <i>obsoleted</i>	103-H89222-6541 <i>suggested replacement</i>	COMMENTS
Flange	✓	106.4mm square	106.4mm square	same
Pilot face	✓	55.52mm dia	55.52mm dia	same
Bolt holes	✓	88.9mm square	88.9mm square	same
Shaft dia	✗	15.875mm (5/8")	16mm	larger, difference of + 0.125mm dia
Shaft key	✓	5mm square	5mm square	same
Length	✗	186.9mm	163mm	shorter, but no terminal box
Rotor inertia	✗	800 x 10 <sup>-6</sup> kg.m <sup>2</sup>	1465 x 10 <sup>-6</sup> kg.m <sup>2</sup>	higher inertia, able to handle heavier loads
Mass	✓	7kg	7kg	same
Holding torq.	✗	13.3Nm *	16.2Nm	higher torque, able to handle heavier loads *
Current	✗	12.7 Amps *	10 Amps	lower current, more efficient
Resistance	✗	0.28 Ω *	0.16Ω	
Inductance	✗	2.4mH *	1.9mH	lower inductance - flatter torque curve
Connections	✗	8 wires terminal box	4 wires flying leads	old motor connection in series or parallel new motor can <b>only be connected in parallel</b>
Double shaft	✓	available	available	different model numbers for double shafts

#### 103-8932-6451 connections



#### 103-H89222-6541 connections



103-8932-obsolescence.cdr