Homologation

Document no: 003/2024

CellClutch

Cordless Assembly Tools

Type: **Cleco - CLBA403**

Order no.: **CLBA403**

This homologation also applies to type(s):

Cleco - CLBA403-1
Cleco - CLBAW403-00
Cleco - CLBAW403-001
Cleco - CLBAW403-CN
Cleco - CLBAW403-CN1
Cleco - CLBAW403-EU
Cleco - CLBAW403-EU1
Cleco - CLBAW403-NA
Cleco - CLBAW403-NA1

Cleco - CLBA403

Right Angle Tool

Order no.: CLBA403

Included	*Type*	*Order no.*
	Cleco - CLBA403-1	CLBA403-1
	Cleco - CLBAW403-00	CLBAW403-00
	Cleco - CLBAW403-001	CLBAW403-001
	Cleco - CLBAW403-CN	CLBAW403-CN
	Cleco - CLBAW403-CN1	CLBAW403-CN1
	Cleco - CLBAW403-EU	CLBAW403-EU
	Cleco - CLBAW403-EU1	CLBAW403-EU1
	Cleco - CLBAW403-NA	CLBAW403-NA
	Cleco - CLBAW403-NA1	CLBAW403-NA1

Machine type:	Cordless Assembly Tools
Torque range:	15,1 Nm to 41 Nm
Max speed:	189 rpm
Certified serial nos.:	ILJ1088, ILJ1089, ILJ1093

Contents:

Overview C_m/C_{mk} values
General specifications tool and controller
Power Tools Sales & Service Centers
Machine capability study and graphs
Measurement capability test

Apex Tool Group

Cordless Assembly Tools

C_m / C_{mk} values achieved

According VDI/VDE 2647 February 2013

Accuracy class: 10 %

Tool model	Serial nos.	Test data	30 %		80 %		100 %	
			30° ±5°	360° ±15°	30° ±5°	360° ±15°	30° ±5°	360° ±15°
CLBA403		Break time	4 s	4 s	4 s	4 s	4 s	8 s
		Test torque	**22,87 Nm**		**35,82 Nm**		**41,00 Nm**	
		Speed in 1st stage	189 rpm	189 rpm	189 rpm	189 rpm	189 rpm	189 rpm
		Speed in last stage	--	--	--	--	--	--
		Angle start torque	11,44 Nm		17,91 Nm		20,50 Nm	
	ILJ1088	C_m	2,24	5,49	2,48	5,13	2,13	5,93
		C_{mk}	1,93	4,17	2,42	3,34	2,09	3,83
	ILJ1089	C_m	3,06	6,11	2,26	4,73	2,50	4,78
		C_{mk}	2,78	5,14	2,15	3,04	2,27	4,05
	ILJ1093	C_m	3,53	6,01	3,04	4,20	3,96	6,28
		C_{mk}	3,04	5,61	2,46	4,12	3,78	5,08
Min. C_m/C_{mk}		C_m	2,24	5,49	2,26	4,20	2,13	4,78
		C_{mk}	1,93	4,17	2,15	3,04	2,09	3,83

	Target:	≥ 1.67	**Rating**
Capability index	C_m	**2,13**	**OK**
	C_{mk}	**1,93**	**OK**

Annex 1

Document no: 003/2024
Date: 08.02.2024

Test sheet no. 1a

General specifications

Manufacturer:	Apex Tool Group	**Assembly tool type**	Cordless Assembly Tools
Tool model:	CLBA403	**Serial numbers:**	ILJ1088, ILJ1089, ILJ1093
Torque range:	15,1 Nm to 41 Nm		

Rated capacity:		**2000 mAh**	**5000 mAh**
Battery voltage:		18 Volt	
Weight (without battery):		1,84 kg	
Weight (with battery):		2,27 kg	2,57 kg
Maximum speed at the first stage:		189 rpm	
Maximum speed at the final stage:		189 rpm	
Minimum speed at the final stage:		19 rpm	
Sound pressure level at maximum speed: (acc. to DIN EN 62841-1:2016-07, DIN EN 62841-2-2:2015-05)		69,4 dB(A)	
Number of duty cycles with a battery at 100% torque	Soft joint (L):	n/a runs	339 runs
	Hard joint (H):	344 runs	913 runs
Temperature of electrical tools: (After 100 measurements with soft jont at 80% torque)		start	end
	at the output drive:	24 °C	34 °C
	on the electric motor:	24 °C	33 °C
	on the handle:	24 °C	27 °C
Output type:		Square drive	
Output drive size:		3/8 inches	

POWER TOOLS SALES & SERVICE CENTERS

Please note that all locations may not service all products.
Contact the nearest Cleco® Sales & Service Center for the appropriate facility to handle your service requirements.

Sales Center
Service Center

NORTH AMERICA | SOUTH AMERICA

DETROIT, MICHIGAN
Apex Tool Group
2630 Superior Court
Auburn Hills, MI 48236
Phone: +1 (248) 393-5644
Fax: +1 (248) 391-6295

LEXINGTON, SOUTH CAROLINA
Apex Tool Group
670 Industrial Drive
Lexington, SC 29072
Phone: +1 (800) 845-5629
Phone: +1 (919) 387-0099
Fax: +1 (803) 358-7681

MEXICO
Apex Tool Group
Vialidad El Pueblito #103
Parque Industrial Querétaro
Querétaro, QRO 76220
Mexico
Phone: +52 (442) 211 3800
Fax: +52 (800) 685 5560

EUROPE | MIDDLE EAST | AFRICA

FRANCE
Apex Tool Group SAS
25 Avenue Maurice Chevalier - ZI
77330 Ozoir-La-Ferrière
France
Phone: +33 1 64 43 22 00
Fax: +33 1 64 43 17 17

GERMANY
Apex Tool Group GmbH
Industriestraße 1
73463 Westhausen
Germany
Phone: +49 (0) 73 63 81 0
Fax: +49 (0) 73 63 81 222

HUNGARY
Apex Tool Group
Hungária Kft.
Platánfa u. 2
9027 GyörHungary
Phone: +36 96 66 1383
Fax: +36 96 66 1135

ASIA PACIFIC

AUSTRALIA
Apex Tool Group
519 Nurigong Street, Albury
NSW 2640
Australia
Phone: +61 2 6058 0300

CHINA
Apex Power Tool Trading
(Shanghai) Co., Ltd.
2nd Floor, Area C
177 Bi Bo Road
Pu Dong New Area, Shanghai
China 201203 P.R.C.
Phone: +86 21 60880320
Fax: +86 21 60880298

INDIA
Apex Power Tool Trading
Private Limited
Gala No. 1, Plot No. 5
S. No. 234, 235 & 245
Indialand Global
Industrial Park
Taluka-Mulsi, Phase I
Hinjawadi, Pune 411057
Maharashtra, India
Phone: +91 020 66761111

JAPAN
Apex Tool Group Japan
Korin-Kaikan 5F,
3-6-23 Shibakoen, Minato-Ku,
Tokyo 105-0011, JAPAN
Phone: +81-3-6450-1840
Fax: +81-3-6450-1841

KOREA
Apex Tool Group Korea
#1503, Hibrand Living Bldg.,
215 Yangjae-dong,
Seocho-gu, Seoul 137-924,
Korea
Phone: +82-2-2155-0250
Fax: +82-2-2155-0252

Cleco

Apex Tool Group, LLC
Phone: +1 (800) 845-5629
Phone: +1 (919) 387-0099
Fax: +1 (803) 358-7681
www.ClecoTools.com
www.ClecoTools.de

1123 | Cleco is a registered trademark of Apex Brands, Inc. | © 2023