

ALCO

ALCO
3050/2750 HP
CENTURY 628 (3090/2790 CV)
DIESEL-ELECTRIC
LOCOMOTIVE

GENERAL SPECIFICATION DL-628

**STANDARD U.S. TYPE, ALL PURPOSE HEAVY DUTY SIX AXLE DIESEL-ELECTRIC
LOCOMOTIVE WITH 2790 CV NET INPUT TO THE GENERATOR**



ALCO

3050/2750 HP

CENTURY 628 (3090/2790 CV)

DIESEL-ELECTRIC LOCOMOTIVE

- A high power unit for the heaviest duties in passenger or freight service.
- Available for all gauges from 1435 mm (4' 8½") upwards, built for axle loads from 25,7 metric tons (56,666 lbs.)
- Equipped with high adhesion Trimount trucks.
- Dynamic brake can be applied.
- Steam generator for train heating can be applied.

Century 628 General Characteristics

Diesel Engine: ALCO 16-251-C 3090/2790 CV (3050/2750 HP)

Wheel Arrangement: Co-Co

Principal Dimensions:

Height (maximum) — 4724 mm (15' 6")

Width (maximum) — 3089 mm (10' 1½")

Length (over body) — 19710 mm (64' 8")

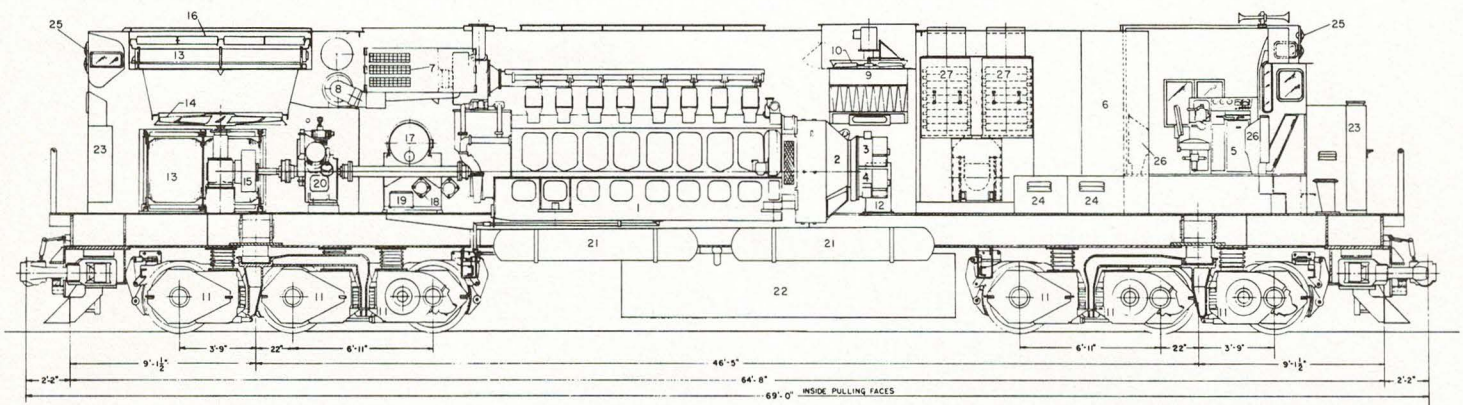
Basic Locomotive Weight: 154 224 Kg. (340,000 lbs.).

Axle Load: 25 704 Kg. (56,666 lbs.)

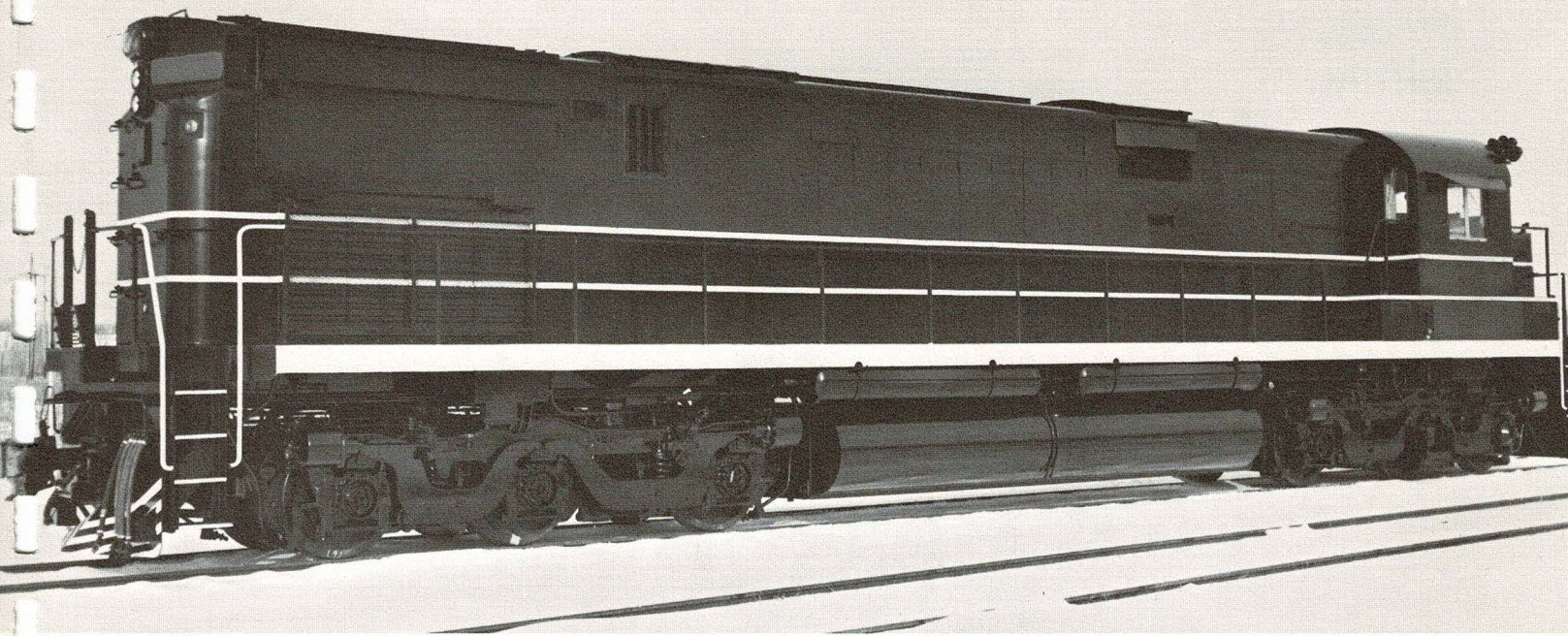
Wheel Diameter Basic: 1016 mm (40")

Fuel Oil Capacity Basic: 7 600 l. (2,000 U.S. Gallons); (1,670 Imp. Gallons)

Standard Gauge Traction Motors from 1435 mm (4' 8½") upwards

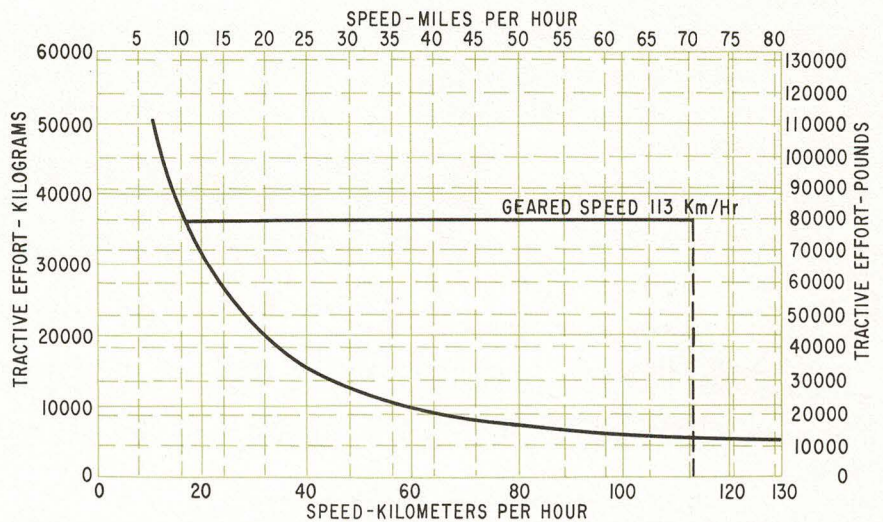


- | | | | |
|--|---|------------------------------|------------------------|
| 1. Engine | 8. Air Cleaner Exhauster | 14. Radiator Fan | 21. Main Air Reservoir |
| 2. Main Generator | 9. Mechanical Air Cleaner (Gen. and Traction Motor Air) | 15. Radiator Fan Clutch | 22. Fuel Tank |
| 3. Exciter | 10. Hood Pressurizing Fan | 16. Radiator Shutter | 23. Sand Box |
| 4. Auxiliary Generator | 11. Traction Motor | 17. Lubricating Oil Filter | 24. Batteries |
| 5. Control Stand | 12. Traction Motor Blower | 18. Lubricating Oil Strainer | 25. Headlight |
| 6. Control Compartment | 13. Radiator | 19. Lubricating Oil Cooler | 26. Cab Heater |
| 7. Mechanical Air Cleaner (Engine Air) | | 20. Air Compressor | 27. Dynamic Brake |



TRACTIVE EFFORT

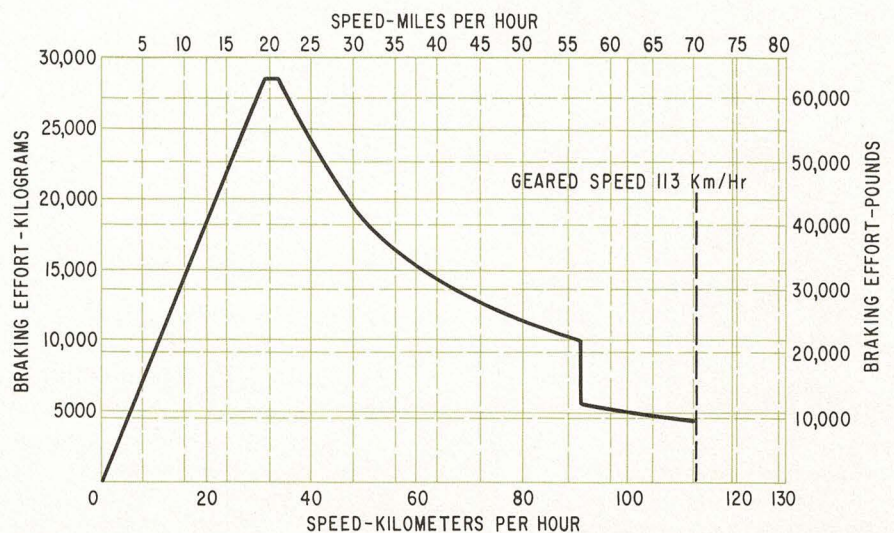
GEAR RATIO	TOP GEARED SPEED		MAXIMUM CONTINUOUS TRACTIVE EFFORT			
	Km/h.	MPH	Kg.	Lbs.	Km/h.	MPH
WITH 1016 mm (40") wheels						
74:18	113	70	36 060	79,500	16,6	10.3
65:18	129	80	31 660	69,800	19,3	12.0



Tractive Effort Characteristics with 1016 mm (40") Wheels and Basic 74:18 Gearing.

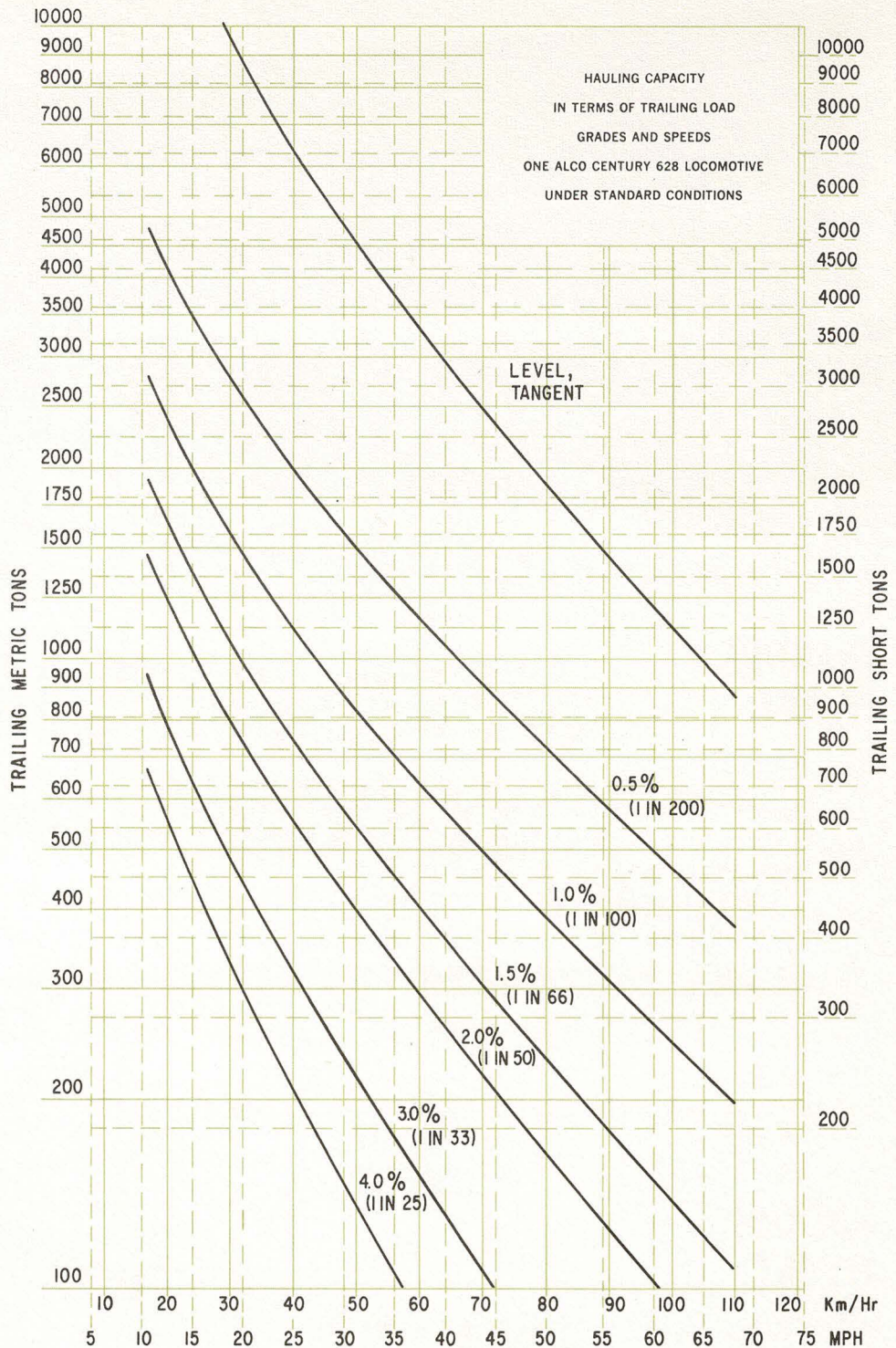
BRAKING EFFORT

GEAR RATIO	BRAKE PEAK SPEED		PEAK BRAKING EFFORT	
	Km/h.	MPH	Kg.	Lbs.
WITH 1016 mm (40") wheels				
74:18	31,4 to 33,8	19.5 to 21	28 580	63,000
65:18	35,4 to 38,6	22 to 24	25 060	55,250



Braking Effort Characteristics with 1016 mm (40") Wheels and Basic 74:18 Gearing.

TONNAGE RATING



NOTE:

The hauling capacity shown above is for 4 axle 50 metric ton freight wagons, in good condition, and has been calculated by Davis' formula, for standard conditions: Sea level, 736 mm. Hg. (29"), 16°C. intake temperature (60°F) and fuel of 10 850 Cal/Kg.* (19,500 BTU/lb.*) meeting ASTM 2-D specification.

*Higher calorific value

FOREIGN ASSOCIATES AND LICENSEES

- Australia: A. E. Goodwin, Ltd., Sydney N. S. W., Australia
- Canada: Montreal Locomotive Works, Montreal, Quebec
- England: A. E. I. (Associated Electrical Industries), Manchester, England
- France: Forges et Chantiers de la Mediterranée, Paris, France
- India: Diesel Locomotive Works, Varanasi, U.P., India
- Spain: Cia. Euskalduna, Madrid, Spain



ALCO PRODUCTS, INC., 530 FIFTH AVENUE, NEW YORK, N. Y., 10036

Cable Address: Locomotive, New York